



66-12
Copy 1

WOODS HOLE OCEANOGRAPHIC INSTITUTION

REFERENCE NO. 66-12

THE DISTRIBUTION OF CHLOROPHYLL
IN THE WESTERN INDIAN OCEAN
DURING THE NORTHEAST MONSOON PERIOD

FEBRUARY 13 - JULY 16, 1965

by

David A. McGill and Thomas J. Lawson, Jr.

WOODS HOLE, MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION
Woods Hole, Massachusetts

REFERENCE NO. 66-12

THE DISTRIBUTION OF CHLOROPHYLL
IN THE WESTERN INDIAN OCEAN
DURING THE NORTHEAST MONSOON PERIOD

February 13 - July 16, 1965

by

David A. McGill and Thomas J. Lawson, Jr.

April, 1966

TECHNICAL REPORT

*Submitted to the National Science Foundation
under Grant NSF-GP 821.*

*Reproduction in whole or in part is permitted
for any purpose of the United States Government.
In citing this manuscript in a bibliography, the
reference should be followed by the phrase:
UNPUBLISHED MANUSCRIPT.*

Approved for Distribution

H. L. Sanders

H. L. Sanders, Acting Chairman
Department of Biology



The Distribution of Chlorophyll in the Western Indian Ocean

during the North East Monsoon Period

February 13 -- July 16, 1965

by

David A. McGill and Thomas J. Lawson, Jr.

This report contains the observations of phytoplankton pigment characteristics made during ATLANTIS II Cruise No. 15 in the western Indian Ocean and its reaches during the period of February 13 through July 16, 1965. As pointed out in a previous report for this region (Laird et al., 1964), the observations should by no means be considered synoptic since short-term variation will occur in biological measurements. The value of the present observations is greatly enhanced by the fact that they repeat and extend the previous data from ATLANTIS II Cruise No. 8 for the area, but are taken at the opposite period of the year for all regions. The data permit only a first approximation of the relative fertility in the area, yet the seasonal contrast becomes an important consideration in the analysis and interpretation of the data. It is believed that this represents the first such large-scale survey for Indian Ocean waters.

The method for measurement of the pigment fractions has been described by Yentsch and Menzel (1963). One liter of sea water was used in all observations. This water was collected using modified Van Dorn closing bottles (non-toxic) spaced at ten depths from the surface to 200 meters. This cast was usually made just prior to the main hydrographic cast at

each station. Particulate matter was concentrated from the water by filtration through a Gelman membrane filter, type GM-4, 47 mm diameter and 0.8μ pore size. Over half of the samples were processed aboard ship, while the remainder were sorted frozen in a dessicator and read in Woods Hole after completion of the survey. Fluorescence from the 85% acetone extract was measured for the total pigment content (F_0). Each 5 cc sample was then acidified with 0.1 ml of 10% HCL and reread (F_a). An estimate of the pigment fractions contributing to the total pigment content was made from the ratio of the two readings ($F_0 : F_a$). With some samples a 3 cc cell was used in place of the normal 5 cc cell in the fluorometer. Resulting readings required a correction to make them equivalent to the rest of the data.

For computation of chlorophyll, a specific absorption coefficient of 66.7% has been used, as in the data of Laird et al., 1964. Recent tests indicate that this value may be as much as 20% too low and thus the chlorophyll values would be high by this amount. Phaeophytin values are not significantly altered (Yentsch and Menzel, 1963). For the 1963 cruise data, glass fiber filter of 4.0μ pore size were used which were later found to be subject to some loss of chlorophyll. This was corrected by use of a magnesium carbonate barrier. The two cruises gave comparable estimates of the mean productivity for the region surveyed. Samples read after prolonged storage may be subject to some deterioration (Yentsch, 1965b) but this factor was randomized in both cruises and thus cannot be separately evaluated.

The analytical results of the 1965 data survey are presented in

Appendix 1. The first column represents values for the chlorophyll pigment fraction, composed primarily of chlorophyll a, as determined from the $F_0:F_a$ ratios. The correct formula for this is found in Yentsch (1965a) following the demonstration by Carpenter that the ratio deviates from linearity toward higher chlorophyll percentages in about the middle of the range of ratio values. The second column gives the phaeophytin pigment fraction values which are obtained by subtracting column 1 from column 3. The third column shows total pigment values, taken from the unacidified (F_0) readings. These values, like the preceding, are given as milligrams per cubic meter for each depth on a station. These total pigment concentrations correspond with the values reported by Laird et al. (1964). Column four lists the amount of total pigment under a square meter of sea surface, obtained by integrating the values of column three from the surface to 200 meters.

The integrated total pigment values are contoured in the distribution pattern shown in Figure 1. This pattern may be compared with that shown from the 1963 data, which is redrawn as Figure 2. In both cases, the integrated pigment values greater than 50 mg/m^2 are shown in shading. The southwest monsoon data of 1963 is notable for some extremely high values concentrated mainly in the area off Cape Guardafui and Socotra in the upwelling regions associated with the Somali Current. No such condition exists in the data of 1965 and the northeast monsoon apparently fails to provide any nutrient enrichment in the open ocean. The maximum obtained in 1965 was south of the Equator near the Seychelles and amounted to only 20-25% of the highest values obtained previously.

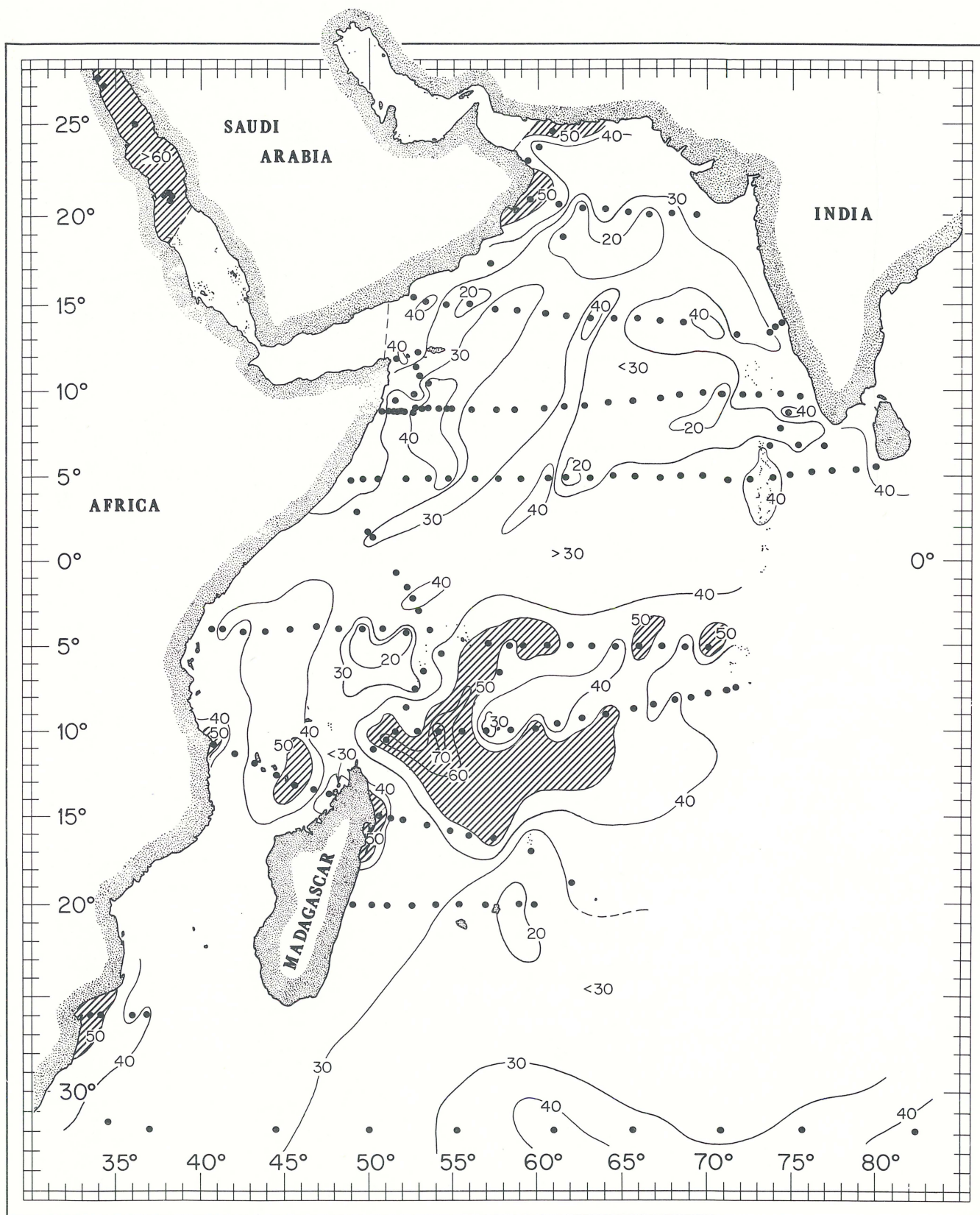


Figure 1. Distribution of total pigment concentrations (mg/m^2) for 0-200 meters obtained during the Northeast Monsoon period, 1965

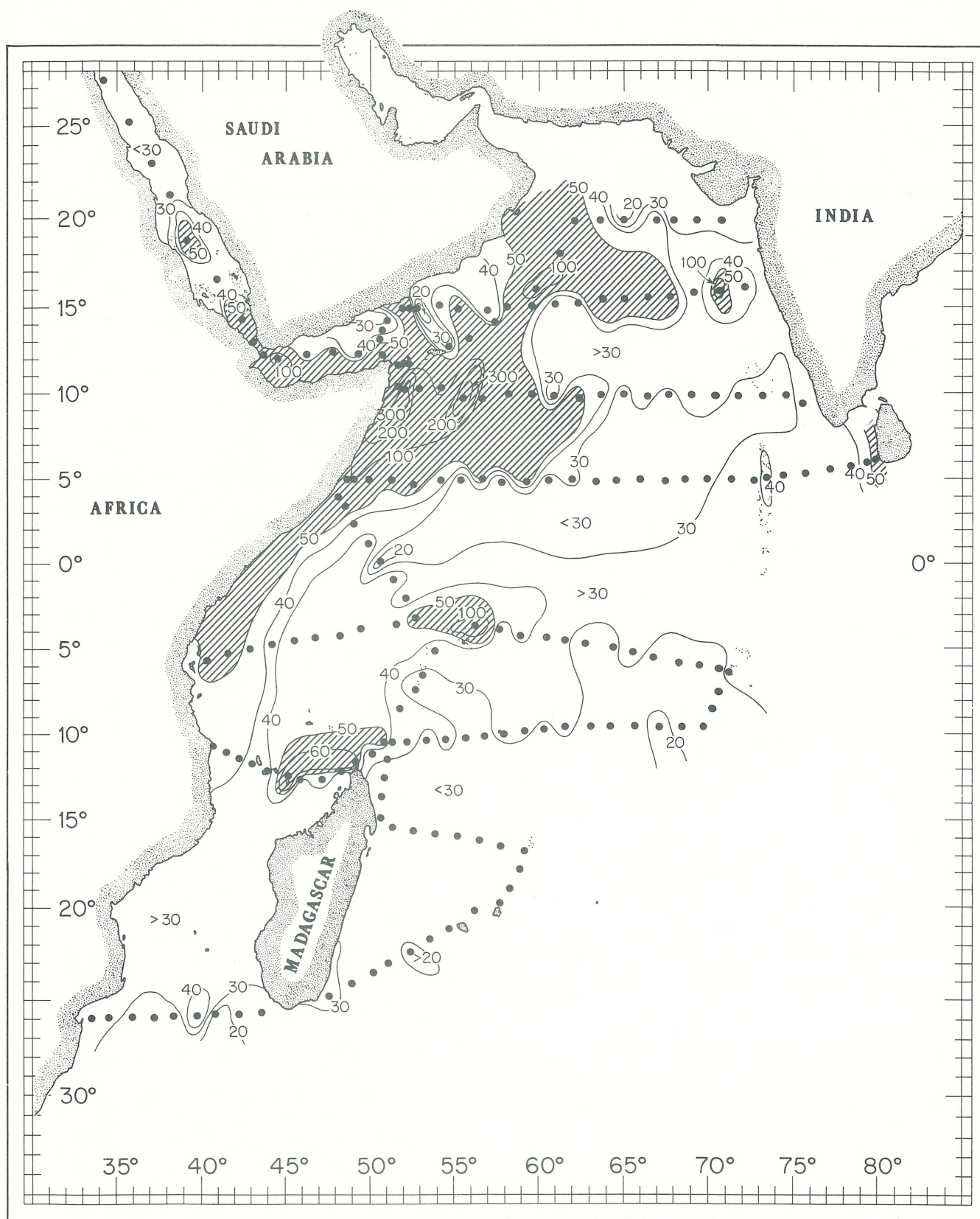


Figure 2. Distribution of total pigment concentrations (mg/m^2) for 0-200 meters obtained during the Southwest Monsoon period, 1963.

Table 1

Integrated Total Pigment Concentrations compared for 1963

(Southwest Monsoon) and 1965 (Northeast Monsoon)

Surveys by ATLANTIS II

Range of Integrated Total Pigment Concentrations from surface to 200 meters (mg/m ²)	Percent of Stations*	
	1963	1965
Less than 25	19.0	15.7
25 -- 50	55.5	72.1
50 -- 75	12.7	10.7
75 -- 100	9.0	1.5
100 -- 125	1.1	0
125 -- 150	1.1	0
Greater than 150	1.6	0

*Includes Red Sea Stations

This distribution is reflected in a determination of the percentage occurrence of regional total pigment values within selected ranges. In both sets of observations the majority lie within values of 25-50 mg/m², but the distribution for the 1965 data is much more leptokurtic, with no values above 100. The comparison of the 1963 and 1965 data is given in Table 1.

The skewness in the 1963 data is mainly confined to the region of the North Indian Ocean in the vicinity of the Somali current. This is also shown by an evaluation of the mean values for integrated total pigment concentrations, as in Table 2. In the 1965 data, regional variations are not great whereas in the 1963 data values north of the Equator are considerably higher than elsewhere and serve to raise the level for the total western Indian Ocean by 1/3 over that found in 1965. The increased chlorophyll values near the Somali region in 1963 may be correlated with the incidence of upwelling in this vicinity (Bruce, 1965) and the increased availability of essential nutrients.

It should be pointed out that the 1965 stations in the Red Sea (#537-544) showed an increase in the integrated pigment values, as opposed to the general decline from 1963 values observed throughout the North Indian Ocean. The mean level for the Red Sea was 2½ times as great as the mean for the North Indian Ocean. These estimates may reflect seasonal blooms, but the data on the hydrographic conditions of the Red Sea during the winter months are too scanty to permit a detailed evaluation of the situation.

Table 2

Area	Mean value for Integrated Total Pigment Concentrations from Surface to 200 meters, with 95% confidence interval. (mg/m ²)	
	1963	1965
North of Equator*	54.29 ± 4.36 (104)	31.06 ± 2.69 (119)
South of Equator	33.52 ± 3.22 (89)	36.12 ± 3.46 (100)
Total Area*	44.19 ± 5.16 (193)	33.37 ± 3.56 (219)

*Includes Red Sea Stations

Stations #522-536 give data which is not included in any of the assessments for the rest of the area. These are samples taken in the Great Bitter Lakes, a shallow embayment of the Suez Canal system. If the mean integrated pigment value for 0-10 meters is extrapolated to the depths equivalent for the other data, the resulting value is five times the mean for the North Indian Ocean and twice that for the Red Sea. This high concentration of chlorophyll was possibly related to the accumulation of sewage from the discharge of ships in convoy awaiting passage through the Suez Canal.

The $F_0 : F_a$ ratios for the 1965 Indian Ocean survey are given as a frequency distribution for each depth in Figure 3. In the upper 50 meters, most of the observations show a range of ratio values from 1.7-2.1. This

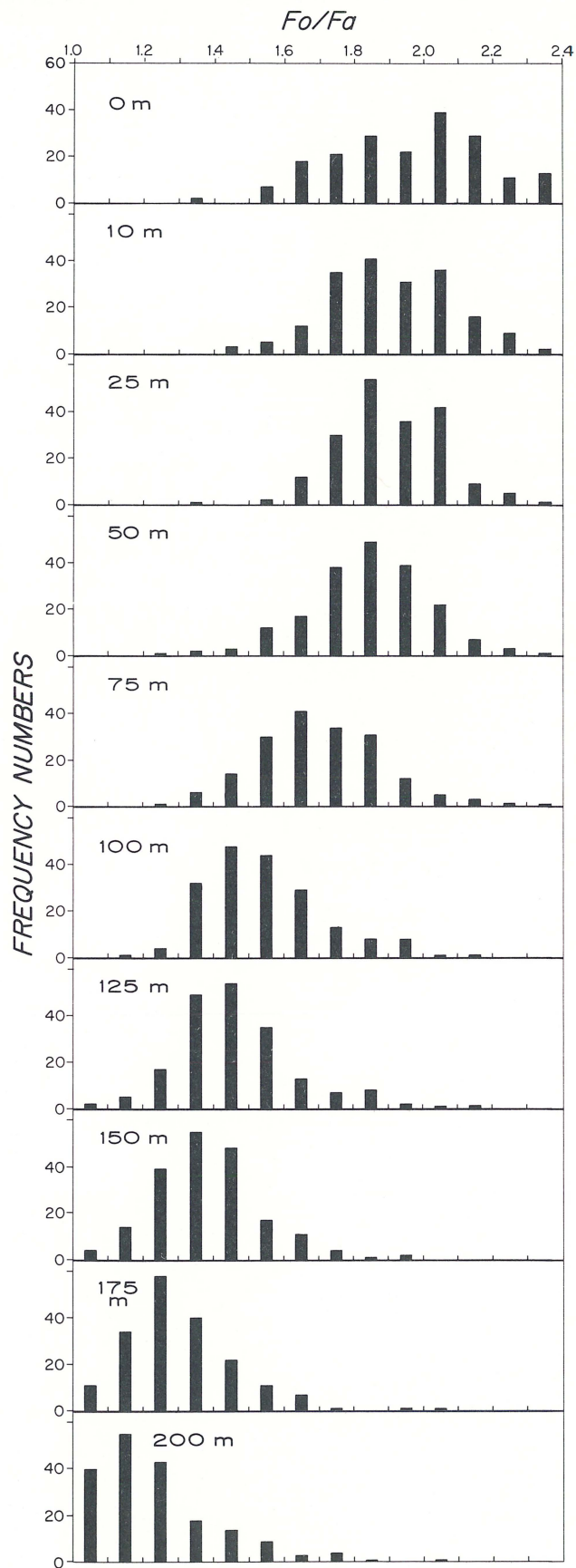


Figure 3. Distribution of fluorescence readings before and after acidification ($F_o:F_a$) for the 1965 data in the Indian Ocean, by depth.

increase in the range over that shown by Yentsch for 1963 data (Yentsch, 1965a Figure 2) results from the use of hydrochloric acid rather than oxalic acid for conversion of the chlorophyll to phaeophytin (Yentsch and Menzel, 1963; Yentsch, 1965). Below 50 meters the $F_o : F_a$ ratio decreases with depth, with the mode shifting to lower ratio values near 1.3 below 100 meters. The mean value from the frequency distribution at each depth may be converted to a percentage value for the chlorophyll a content. Such values for the two sets of data are given in Table 3. The slightly reduced chlorophyll percentages in 1965 may be a further indication of the greater stability of the water column during this period. Yentsch (1965a, p. 658) states:

"Water masses of high stability have considerably less total pigment. In stable water masses the depth where maximum concentrations of total pigment, chlorophyll and phaeophytin occur is deeper than in less stable water masses, and the depth at which chlorophyll and phaeophytin concentrations become equal is shallower."

Phaeophytin values are always low, but show some increase with depth relative to the amount of chlorophyll a. In general, the total pigment maximum lies at a depth of 50 meters or more. Lorenzen (1965) has pointed out the general relation between the pigment maximum and the thermocline. It is apparent that the high total pigment values from 1963 in the North Indian Ocean represented a much larger production of chlorophyll in the surface layer in the Somali Current vicinity. The stations at 9°N are shown in Yentsch (1965a, Figure 3) and clearly demonstrate the effect of the monsoon season and its attendant upwelling on the general transoceanic level of productivity.

Table 3

Mean Percentage of Chlorophyll in Total Pigment Analyses for Selected
Depth Levels, derived from a frequency distribution of the $F_0:F_a$
ratios of individual stations

Depth	1963	1965
	Acidified with Oxalic Acid	Acidified with Hydrochloric Acid
Surface (0 Meters)	81%	74%
10 meters	81%	70%
25 meters	82%	70%
50 meters	74%	65%
75 meters	62%	55%
100 meters	50%	42%
125 meters	40%	37%
150 meters	28%	30%
175 meters	26%	24%
200 meters	27%	19%

1963 values differ from those given by Yentsch (1965a, p. 658) due to
a regrouping of data and inclusion of Red Sea values

Information on the relative pigment levels in data from all stations of the 1963 survey has been obtained from the field notes of the expedition. Comparison of the mean pigment levels for the 1963 and the 1965 data are given in Table 4 along with the 95% confidence intervals. The high productivity of the North Indian Ocean is reflected in the statistics for mean values of the respective pigments. In 1963 the chlorophyll values north of the Equator were 67% of the total pigment, while in 1965 they accounted for 71.5%. South of the Equator the chlorophyll level in 1963 was 69%, while in 1965, it was 71% of the mean total pigment. Such a broad statistical evaluation minimizes the details of regional variation. It does point out, however, the relative contribution of chlorophyll and phaeophytin to total pigment throughout the euphotic zone in tropical and semitropical waters.

Table 4

Mean Value and 95% Confidence Interval for the Pigment Fractions analysed

North and South of the Equator

Mean Chlorophyll a. (mg/m³)

North of Equator*	0.2025 \pm 0.0103 (1029)	0.1153 \pm 0.0042 (1083)
South of Equator	0.0897 \pm 0.0045 (889)	0.1338 \pm 0.0045 (895)
Total Area*	0.1502 \pm 0.0060 (1918)	0.1237 \pm 0.0031 (1978)

Mean Phaeophytin (mg/m³)

North of Equator*	0.1002 \pm 0.0038 (1029)	0.0456 \pm 0.0015 (1083)
South of Equator	0.0662 \pm 0.0020 (889)	0.0602 \pm 0.0022 (895)
Total Area*	0.0845 \pm 0.0013 (1918)	0.0521 \pm 0.0032 (1978)

Mean Total Pigment (mg/m³)

North of Equator*	0.3028 \pm 0.0255 (1029)	0.1609 \pm 0.0102 (1083)
South of Equator	0.1560 \pm 0.0125 (889)	0.1940 \pm 0.0112 (895)
Total Area*	0.2347 \pm 0.0151 (1918)	0.1758 \pm 0.0074 (1978)

*Includes Red Sea stations

REFERENCES

- Bruce, John J. Jr. 1965. Near surface currents off the Somali coast in the summer monsoon, August 1964. Woods Hole Oceanographic Institution. Reference No. 65-66. 11 pp. 15 Fig. (Unpublished manuscript: Multilith).
- Laird, John, B., B. Breivogel and C.S. Yentsch. 1964. The distribution of Chlorophyll in the Western Indian Ocean during the southwest monsoon period, July 30-November 12, 1963. Woods Hole Oceanographic Institution. Reference No. 64-33. 52 pp. 1 Fig. (Unpublished manuscript: Multilith).
- Lorenzen, C. J. 1965. A note on the chlorophyll and phaeophytin content of the chlorophyll maximum. Limnol. and Oceanogr. 10(3): 482-483.
- Yentsch, C. S. 1965a. Distribution of chlorophyll and phaeophytin in the open ocean. Deep Sea Res. 12: 653-666.
- Yentsch, C. S. 1965b. Measurements of in situ light, plankton pigments and Carbon 14 in biological oceanography. NAS Committee on Oceanography. Working Group report for 1964-1965. (Unpublished manuscript: Multilith).
- Yentsch, C. S. and D. W. Menzel. 1963. A method for the determination of phytoplankton chlorophyll and phaeophytin by fluorescence. Deep Sea Res. 10: 221-231.

APPENDIX 1

Phytoplankton Pigment Concentrations

for Stations 522-777

ATLANTIS II Cruise No. 15

STATION: 522
DATE: 2/13
TIME: 14.0
LATITUDE: 30°21.3'N
LONGITUDE: 32°21.0'E

Station 522

Depth	Chl <u>a</u>	Phaeo	Total Pigment	
	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ²
0	0.915	0.085	1.00	7.50
10	0.43	0.07	0.50	

STATION: 525
DATE: 2/13
TIME: 18.0
LATITUDE: 30°21.8'N
LONGITUDE: 32°21.6'E

Station 525

	Chl <u>a</u>	Phaeo	Total Pigment	
	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ²
	0.925	0.055	0.98	7.85
	0.49	0.10	0.59	

STATION: 529
DATE: 2/13
TIME: 22.0
LATITUDE: 30°17.8'N
LONGITUDE: 32°24.3'E

Station 529

Depth	Chl <u>a</u>	Phaeo	Total Pigment	
	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ²
0	0.955	0.065	1.02	8.80
10	0.68	0.06	0.74	

STATION: 530
DATE: 2/13
TIME: 23.5
LATITUDE: 30°19.6'N
LONGITUDE: 32°23.0'E

Station 530

	Chl <u>a</u>	Phaeo	Total Pigment	
	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ²
	0.965	0.095	1.06	10.55
	1.015	0.035	1.05	

STATION: 532
DATE: 2/14
TIME: 09.5
LATITUDE: 30°20.6'N
LONGITUDE: 32°24.6'E

Station 532

Depth	Chl <u>a</u>	Phaeo	Total Pigment	
	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ²
0	0.90	0.00	0.90	8.00
10	1.76	0.17	1.93	

STATION: 533
DATE: 2/14
TIME: 10.8
LATITUDE: 30°22.3'N
LONGITUDE: 32°23.1'E

Station 533

	Chl <u>a</u>	Phaeo	Total Pigment	
	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ²
	0.65	0.10	0.75	5.80
	0.81	0.08	0.89	

STATION: 535
DATE: 2/14
TIME: 12.7
LATITUDE: 30°19.6'N
LONGITUDE: 32°22.1'E

Station 535

Depth	Chl <u>a</u>	Phaeo	Total Pigment	
	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ²
0	0.81	0.05	0.86	8.65
10	0.79	0.08	0.87	

STATION: 536
DATE: 2/14
TIME: 13.2
LATITUDE: 30°17.3'N
LONGITUDE: 32°24.6'E

Station 536

	Chl <u>a</u>	Phaeo	Total Pigment	
	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ³	<u>mg/m</u> ²
	1.27	0.14	1.41	4.30
	0.84	0.13	0.97	

STATION: 538
DATE: 2/15
TIME: 11.5
LATITUDE: 27°43.5'N
LONGITUDE: 33°53.5'E

STATION: 539
DATE: 2/15
TIME: 14.4
LATITUDE: 27°27.5'N
LONGITUDE: 34°14.5'E

<u>Station 538</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.555	0.105	0.66	91.100
10	0.80	0.08	0.88	
25	0.145	0.095	0.24	
50	0.27	0.10	0.37	
75	0.295	0.095	0.39	
100	0.38	0.13	0.51	
125	0.34	0.14	0.48	
150	0.30	0.16	0.46	
175	0.32	0.13	0.45	
200	0.38	0.14	0.52	

<u>Station 539</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.45	0.10	0.55	70.525	
0.46	0.10	0.56		
0.585	0.135	0.72		
0.44	0.11	0.55		
0.36	0.09	0.45		
0.225	0.07	0.295		
0.02	0.20	0.22		
0.055	0.145	0.20		
0.085	0.025	0.11		
0.01	0.06	0.07		

STATION: 540
DATE: 2/16
TIME: (04.5)
LATITUDE: 25°28.0'N
LONGITUDE: 36°10.0'E

STATION: 541
DATE: 2/17
TIME: 17.5
LATITUDE: 21°17.0'N
LONGITUDE: 38°00.0'E

<u>Station 540</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

<u>Station 541</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.12	0.03	0.15	64.950	
0.04	0.08	0.12		
0.20	0.06	0.26		
0.69	0.40	1.09		
0.29	0.33	0.62		
0.16	0.16	0.32		
0.08	0.07	0.15		
0.02	0.04	0.06		
0.01	0.035	0.045		
0.01	0.02	0.03		

No samples were taken between stations 541 and 546.

STATION: 546
DATE: 2/26
TIME: 08.0
LATITUDE: 11°55.0' N
LONGITUDE: 51°40.5' E

STATION: 547
DATE: 2/26
TIME: 10.8
LATITUDE: 11°59.5' N
LONGITUDE: 51°55.0' E

Station 546

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.145	0.005	0.15	33.275
10	0.29	0.03	0.32	
25	0.24	0.03	0.27	
50	0.40	0.02	0.42	
75	0.15	0.04	0.19	
100	0.095	0.035	0.13	
125	0.04	0.01	0.05	
150	0.03	0.03	0.06	
175	0.01	0.04	0.05	
200	0.005	0.045	0.05	

Station 547

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.14	0.00	0.14	41.525
0.12	0.02	0.14	
0.20	0.04	0.24	
0.535	0.045	0.58	
0.29	0.02	0.31	
0.135	0.02	0.155	
0.155	0.025	0.18	
0.03	0.015	0.045	
0.04	0.03	0.07	
0.025	0.035	0.06	

STATION: 548
DATE: 2/26
TIME: 15.7
LATITUDE: 12°07.0' N
LONGITUDE: 52°02.0' E

STATION: 549
DATE: 2/26
TIME: 19.7
LATITUDE: 12°05.0' N
LONGITUDE: 52°32.5' E

Station 548

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.10	0.00	0.10	31.35
10	0.09	0.00	0.09	
25	0.165	0.015	0.18	
50	0.525	0.095	0.62	
75	0.13	0.04	0.17	
100	0.06	0.03	0.09	
125	0.05	0.02	0.07	
150	0.025	0.015	0.04	
175	0.02	0.02	0.04	
200	0.015	0.015	0.03	

Station 549

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.10	0.01	0.11	31.28
0.085	0.015	0.10	
0.08	0.02	0.10	
0.12	0.02	0.14	
0.25	0.06	0.31	
0.18	0.04	0.22	
0.07	0.035	0.105	
0.025	0.035	0.06	
0.015	0.025	0.04	
0.01	0.03	0.04	

STATION: 550
DATE: 2/26
TIME: 23.5
LATITUDE: 11°39.0'N
LONGITUDE: 52°20.0'E

STATION: 551
DATE: 2/27
TIME: 05.1
LATITUDE: 11°05.0'N
LONGITUDE: 52°58.0'E

<u>Station 550</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.13	0.01	0.14	22.65
10	0.115	0.015	0.13	
25	0.09	0.02	0.11	
50	0.32	0.06	0.38	
75	0.09	0.03	0.12	
100	0.065	0.035	0.10	
125	0.03	0.02	0.05	
150	0.02	0.01	0.03	
175	0.01	0.02	0.03	
200	0.01	0.02	0.03	

<u>Station 551</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.24	0.03	0.27	26.00
10	0.14	0.04	0.18	
25	0.22	0.05	0.27	
50	0.16	0.05	0.21	
75	0.13	0.045	0.175	
100	0.085	0.045	0.13	
125	0.035	0.035	0.07	
150	0.015	0.025	0.04	
175	0.01	0.025	0.035	
200	0.005	0.035	0.04	

STATION: 552
DATE: 2/27
TIME: 11.8
LATITUDE: 10°27.0'N
LONGITUDE: 53°28.0'E

STATION: 553
DATE: 2/27
TIME: 22.2
LATITUDE: 10°02.5'N
LONGITUDE: 52°35.0'E

<u>Station 552</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.28	0.065	0.345	40.78
10	0.285	0.065	0.35	
25	0.28	0.11	0.39	
50	0.23	0.13	0.36	
75	0.145	0.115	0.26	
100	0.055	0.095	0.15	
125	0.03	0.08	0.11	
150	0.015	0.085	0.10	
175	0.015	0.045	0.06	
200	0.02	0.05	0.07	

<u>Station 553</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.205	0.015	0.22	19.725
10	0.17	0.02	0.19	
25	0.165	0.025	0.19	
50	0.12	0.02	0.14	
75	0.135	0.035	0.17	
100	0.055	0.02	0.075	
125	0.055	0.03	0.085	
150	0.035	0.015	0.05	
175	---	---	---	
200	---	---	---	

STATION: 554
DATE: 2/28
TIME: 06.2
LATITUDE: 09°42.5'N
LONGITUDE: 51°36.0'E

STATION: 555
DATE: 2/28
TIME: 13.0
LATITUDE: 09°04.0'N
LONGITUDE: 50°45.5'E

<u>Station 554</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.19	0.01	0.20	30.95
10	0.18	0.04	0.22	
25	0.14	0.02	0.16	
50	0.23	0.07	0.30	
75	0.175	0.085	0.26	
100	0.145	0.075	0.22	
125	0.055	0.045	0.10	
150	0.025	0.015	0.04	
175	0.01	0.02	0.03	
200	0.005	0.015	0.02	

<u>Station 555</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.13	0.00	0.13	22.225
10	0.13	0.01	0.14	
25	0.14	0.03	0.17	
50	0.195	0.025	0.22	
75	0.165	0.01	0.175	
100	0.06	0.02	0.08	
125	0.075	0.015	0.09	
150	0.04	0.025	0.065	
175	0.03	0.02	0.05	
200				

STATION: 556
DATE: 2/28
TIME: 20.5
LATITUDE: 09°00.0'N
LONGITUDE: 51°04.0'E

STATION: 557
DATE: 3/1
TIME: 00.3
LATITUDE: 09°00.0'N
LONGITUDE: 51°25.0'E

<u>Station 556</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.40	0.03	0.43	37.625
10	0.35	0.02	0.37	
25	0.43	0.05	0.48	
50	0.37	0.05	0.42	
75	0.16	0.03	0.19	
100	0.09	0.03	0.12	
125	0.02	0.02	0.04	
150	0.02	0.015	0.035	
175	0.01	0.02	0.03	
200	0.01	0.02	0.03	

<u>Station 557</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.09	0.01	0.10	32.675
10	0.17	0.03	0.20	
25	0.17	0.04	0.21	
50	0.21	0.05	0.26	
75	0.285	0.06	0.345	
100	0.10	0.04	0.14	
125	0.04	0.04	0.08	
150	0.01	0.04	0.05	
175	0.06	0.06	0.12	
200	0.015	0.035	0.05	

STATION: 558
DATE: 3/1
TIME: 21.6
LATITUDE: 09°00.0'N
LONGITUDE: 51°47.5'E

STATION: 559
DATE: 3/2
TIME: (12.9)
LATITUDE: 08°55.0'N
LONGITUDE: 51°36.5'E

<u>Station 558</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.23	0.02	0.25	35.775
10	0.16	0.02	0.18	
25	0.16	0.02	0.18	
50	0.41	0.08	0.49	
75	0.155	0.045	0.20	
100	0.11	0.05	0.16	
125	0.065	0.015	0.08	
150	0.055	0.025	0.08	
175	0.015	0.015	0.03	
200	0.01	0.01	0.02	

<u>Station 559</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>

Did not take samples.

STATION: 560
DATE: 3/3
TIME: 04.0
LATITUDE: 08°59.5'N
LONGITUDE: 52°10.5'E

STATION: 561
DATE: 3/4
TIME: (01.8)
LATITUDE: 09°05.0'N
LONGITUDE: 51°58.5'E

<u>Station 560</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.25	0.01	0.26	42.675
10	0.255	0.025	0.28	
25	0.20	0.03	0.23	
50	0.37	0.06	0.43	
75	0.33	0.08	0.41	
100	0.175	0.115	0.29	
125	0.09	0.02	0.11	
150	0.04	0.01	0.05	
175	0.02	0.01	0.03	
200	0.01	0.01	0.02	

<u>Station 561</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>

Did not take samples.

STATION: 562
DATE: 3/6
TIME: 03.0
LATITUDE: 09°00.5'N
LONGITUDE: 52°38.5'E

STATION: 563
DATE: 3/6
TIME: (05.8)
LATITUDE: 09°13.0'N
LONGITUDE: 52°28.5'E

<u>Station 562</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.185	0.015	0.20	30.140
10	0.205	0.02	0.225	
25	0.175	0.035	0.21	
50	0.21	0.03	0.24	
75	0.225	0.155	0.38	
100	0.10	0.07	0.17	
125	0.01	0.02	0.03	
150	0.01	0.02	0.03	
175	0.01	0.01	0.02	
200	0.00	0.01	0.01	

<u>Station 563</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
Did not take samples			

STATION: 564
DATE: 3/6
TIME: 02.0
LATITUDE: 09°05.0'N
LONGITUDE: 53°07.0'E

STATION: 565
DATE: 3/7
TIME: 14.0
LATITUDE: 09°01.5'N
LONGITUDE: 53°39.5'E

<u>Station 564</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.15	0.00	0.15	41.745
10	0.15	0.02	0.17	
25	0.16	0.025	0.185	
50	0.45	0.09	0.54	
75	0.39	0.15	0.54	
100	0.075	0.04	0.115	
125	0.025	0.015	0.04	
150	0.015	0.015	0.03	
175	0.01	0.03	0.04	
200	0.005	0.025	0.03	

<u>Station 565</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.15	0.02	0.17	44.475
0.075	0.025	0.10	
0.12	0.03	0.15	
0.29	0.08	0.37	
0.38	0.15	0.53	
0.145	0.145	0.29	
0.06	0.21	0.27	
0.02	0.025	0.045	
0.01	0.03	0.04	
0.03	0.03	0.06	

STATION: 566
DATE: 3/8
TIME: 04.5
LATITUDE: 09°00.5'N
LONGITUDE: 54°13.0'E

STATION: 567
DATE: 3/8
TIME: 17.0
LATITUDE: 09°00.5'N
LONGITUDE: 54°51.5'E

<u>Station 566</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.145	0.015	0.16	40.663
10	0.145	0.015	0.16	
25	0.16	0.04	0.20	
50	0.38	0.125	0.505	
75	0.29	0.19	0.48	
100	0.135	0.125	0.26	
125	0.01	0.03	0.04	
150	0.00	0.02	0.02	
175	0.00	0.03	0.03	
200	0.00	0.03	0.03	

<u>Station 567</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.09	0.00	0.09	37.725	
0.08	0.01	0.09		
0.065	0.005	0.07		
0.45	0.03	0.48		
0.27	0.13	0.40		
0.185	0.135	0.32		
0.05	0.06	0.11		
0.02	0.02	0.04		
0.01	0.01	0.02		
0.005	0.015	0.02		

STATION: 568
DATE: 3/8
TIME: (22.8)
LATITUDE: 09°02.0'N
LONGITUDE: 54°42.0'E

STATION: 569
DATE: 3/9
TIME: 19.1
LATITUDE: 09°00.0'N
LONGITUDE: 56°06.0'E

<u>Station 568</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

<u>Station 569</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.08	0.00	0.08	26.050	
0.05	0.01	0.06		
0.06	0.01	0.07		
0.06	0.01	0.07		
0.46	0.07	0.53		
0.08	0.09	0.17		
0.04	0.03	0.07		
0.02	0.04	0.06		
0.01	0.02	0.03		
0.01	0.01	0.02		

STATION: 570
DATE: 3/10
TIME: 06.4
LATITUDE: 08°57.5'N
LONGITUDE: 57°27.5'E

STATION: 571
DATE: 3/10
TIME: 15.7
LATITUDE: 09°06.0'N
LONGITUDE: 58°51.0'E

Station 570

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.095	0.005	0.10	26.400
10	0.07	0.03	0.10	
25	0.07	0.01	0.08	
50	0.16	0.03	0.19	
75	0.29	0.21	0.50	
100	0.045	0.045	0.09	
125	0.055	0.045	0.10	0.0
150	0.015	0.015	0.03	
175	0.005	0.015	0.02	
200	0.00	0.02	0.02	

Station 571

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.12	0.00	0.12	28.575
0.07	0.02	0.09	
0.115	0.015	0.13	
0.13	0.015	0.145	
0.44	0.08	0.52	
0.135	0.045	0.18	
0.03	0.04	0.07	
0.01	0.01	0.02	
0.01	0.01	0.02	
0.01	0.02	0.03	

STATION: 572
DATE: 3/10
TIME: 01.0
LATITUDE: 09°13.0'N
LONGITUDE: 60°13.0'E

STATION: 573
DATE: 3/11
TIME: 11.0
LATITUDE: 09°20.0'N
LONGITUDE: 61°35.5'E

Station 572

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.045	0.005	0.05	23.615
10	0.06	0.015	0.075	
25	0.06	0.02	0.08	
50	0.28	0.10	0.38	
75	0.25	0.17	0.42	
100	0.065	0.065	0.13	
125	0.04	0.03	0.07	
150	0.005	0.005	0.01	
175	0.005	0.015	0.02	
200	0.00	0.02	0.02	

Station 573

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.095	0.005	0.10	34.675
0.055	0.015	0.07	
0.095	0.015	0.11	
0.19	0.03	0.22	
0.69	0.05	0.74	
0.12	0.065	0.185	
0.025	0.015	0.04	
0.01	0.02	0.03	
0.005	0.015	0.02	
0.005	0.015	0.02	

STATION: 574
DATE: 3/11
TIME: 19.7
LATITUDE: 09°26.0'N
LONGITUDE: 62°56.5'E

STATION: 575
DATE: 3/12
TIME: 05.2
LATITUDE: 09°35.5'N
LONGITUDE: 64°19.0'E

<u>Station 574</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.10	0.01	0.11	20.840
10	0.10	0.015	0.115	
25	0.115	0.015	0.13	
50	0.16	0.03	0.19	
75	0.195	0.075	0.27	
100	0.04	0.02	0.06	
125	0.03	0.03	0.06	
150	0.015	0.015	0.03	
175	0.01	0.02	0.03	
200	0.005	0.015	0.02	

<u>Station 575</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.10	0.01	0.11	26.905
10	0.07	0.01	0.08	
25	0.09	0.01	0.10	
50	0.135	0.045	0.18	
75	0.36	0.07	0.43	
100	0.155	0.065	0.22	
125	0.01	0.04	0.05	
150	0.02	0.02	0.04	
175	0.01	0.015	0.025	
200	0.00	0.02	0.02	

STATION: 576
DATE: 3/12
TIME: 15.7
LATITUDE: 09°41.5'N
LONGITUDE: 65°41.0'E

STATION: 577
DATE: 3/12
TIME: 01.0
LATITUDE: 09°50.5'N
LONGITUDE: 67°02.5'E

<u>Station 576</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.095	0.005	0.10	23.420
10	0.08	0.01	0.09	
25	0.06	0.005	0.065	
50	0.215	0.025	0.24	
75	0.26	0.06	0.32	
100	0.075	0.035	0.11	
125	0.045	0.035	0.08	
150	0.015	0.025	0.04	
175	0.005	0.015	0.02	
200	0.00	0.02	0.02	

<u>Station 577</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.05	0.01	0.06	29.115
10	0.03	0.015	0.045	
25	0.02	0.03	0.05	
50	0.06	0.00	0.06	
75	0.29	0.14	0.43	
100	0.175	0.205	0.38	
125	0.05	0.07	0.12	
150	0.03	0.03	0.06	
175	0.005	0.025	0.03	
200	0.005	0.015	0.02	

STATION: 578
DATE: 3/13
TIME: 10.1
LATITUDE: 09°58.5'N
LONGITUDE: 58°29.0'E

STATION: 579
DATE: 3/13
TIME: 20.2
LATITUDE: 10°03.5'N
LONGITUDE: 69°43.0'E

<u>Station 578</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.08	0.01	0.09	27.575
10	0.08	0.02	0.10	
25	0.09	0.01	0.10	
50	0.10	0.02	0.12	
75	0.20	0.04	0.24	
100	0.235	0.045	0.28	
125	0.09	0.07	0.16	
150	0.04	0.04	0.08	
175	0.035	0.025	0.06	
200	0.015	0.015	0.03	

<u>Station 579</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.05	0.00	0.05	24.975
10	0.045	0.015	0.06	
25	0.04	0.01	0.05	
50	0.065	0.015	0.08	
75	0.19	0.035	0.225	
100	0.195	0.025	0.22	
125	0.135	0.115	0.25	
150	0.05	0.03	0.08	
175	0.03	0.02	0.05	
200	0.01	0.02	0.03	

STATION: 580
DATE: 3/13
TIME: 04.2
LATITUDE: 10°00.0'N
LONGITUDE: 70°54.0'E

STATION: 581
DATE: 3/14
TIME: 10.7
LATITUDE: 09°59.0'N
LONGITUDE: 71°59.0'E

<u>Station 580</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.05	0.005	0.055	16.745
10	0.04	0.005	0.045	
25	0.06	0.01	0.07	
50	0.05	0.01	0.06	
75	0.115	0.025	0.14	
100	0.105	0.095	0.20	
125	0.04	0.04	0.08	
150	0.03	0.04	0.07	
175	0.00	0.02	0.02	
200	0.00	0.02	0.02	

<u>Station 581</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.115	0.005	0.12	39.000
10	0.08	0.03	0.11	
25	0.08	0.02	0.10	
50	0.27	0.085	0.355	
75	0.27	0.13	0.40	
100	0.185	0.175	0.36	
125	0.08	0.08	0.16	
150	0.03	0.04	0.07	
175	0.00	0.04	0.04	
200	0.00	0.03	0.03	

STATION: 582
DATE: 3/15
TIME: 08.8
LATITUDE: 13°37.5'N
LONGITUDE: 72°40.5'E

STATION: 583
DATE: 3/15
TIME: 12.0
LATITUDE: 13°48.0'N
LONGITUDE: 72°57.5'E

<u>Station 582</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.07	0.00	0.07	25.800
10	0.09	0.01	0.10	
25	0.10	0.01	0.11	
50	0.22	0.08	0.30	
75	0.19	0.12	0.31	
100	0.075	0.075	0.15	
125	0.015	0.035	0.05	
150	0.005	0.025	0.03	
175	0.005	0.025	0.03	
200	0.00	0.02	0.02	

<u>Station 583</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.105	0.005	0.11	38.050	
0.08	0.01	0.09		
0.11	0.02	0.13		
0.36	0.06	0.42		
0.39	0.12	0.51		
0.13	0.085	0.215		
0.045	0.06	0.105		
0.015	0.025	0.04		
0.005	0.025	0.03		
0.01	0.05	0.06		

STATION: 584
DATE: 3/15
TIME: 15.6
LATITUDE: 14°03.5'N
LONGITUDE: 73°17.5'E

STATION: 585
DATE: 3/21
TIME: 07.6
LATITUDE: 20°09.0'N
LONGITUDE: 69°26.0'E

<u>Station 584</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.10	0.00	0.10	36.425
10	0.10	0.015	0.115	
25	0.10	0.02	0.12	
50	0.27	0.05	0.32	
75	0.37	0.11	0.48	
100	0.18	0.09	0.27	
125	0.045	0.055	0.10	
150	0.01	0.03	0.04	
175	0.015	0.035	0.05	
200	0.01	0.035	0.045	

<u>Station 585</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.30	0.03	0.33	34.300	
0.27	0.05	0.32		
0.30	0.06	0.36		
0.24	0.08	0.32		
0.145	0.045	0.19		
0.06	0.03	0.09		
0.045	0.055	0.10		
0.03	0.03	0.06		
0.015	0.055	0.07		
0.01	0.045	0.055		

STATION: 586
DATE: 3/21
TIME: 16.5
LATITUDE: 20°07.5'N
LONGITUDE: 67°56.0'E

STATION: 587
DATE: 3/22
TIME: 04.3
LATITUDE: 20°19.5'N
LONGITUDE: 66°36.5'E

<u>Station 586</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.10	0.01	0.11	22.025
10	0.15	0.01	0.16	
25	0.255	0.025	0.28	
50	0.215	0.035	0.25	
75	0.04	0.01	0.05	
100	0.15	0.03	0.18	
125	0.025	0.025	0.05	
150	0.01	0.01	0.02	
175	0.00	0.01	0.01	
200				

<u>Station 587</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.15	0.01	0.16	17.275
10	0.125	0.02	0.145	
25	0.145	0.025	0.17	
50	0.135	0.025	0.16	
75	0.10	0.05	0.15	
100	0.05	0.03	0.08	
125	0.02	0.02	0.04	
150	0.01	0.01	0.02	
175	0.01	0.01	0.02	
200	0.005	0.015	0.02	

STATION: 588
DATE: 3/23
TIME: 04.7
LATITUDE: 24°57.5'N
LONGITUDE: 60°44.0'E

STATION: 589
DATE: 3/24
TIME: 12.0
LATITUDE: 24°02.0'N
LONGITUDE: 59°57.0'E

<u>Station 588</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.37	0.00	0.37	40.375
10	0.41	0.02	0.43	
25	0.40	0.02	0.42	
50	0.585	0.095	0.68	
75	0.10	0.04	0.14	
100	0.06	0.02	0.08	
125	0.03	0.01	0.04	
150	0.01	0.01	0.02	
175	0.01	0.01	0.02	
200	0.005	0.015	0.02	

<u>Station 589</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.23	0.00	0.23	37.00
10	0.25	0.02	0.27	
25	0.595	0.035	0.63	
50	0.45	0.08	0.53	
75	0.105	0.035	0.14	
100	0.025	0.015	0.04	
125	0.015	0.015	0.03	
150	0.005	0.015	0.02	
175	0.005	0.015	0.02	
200	0.00	0.03	0.03	

STATION: 590
DATE: 3/24
TIME: 22.2
LATITUDE: 23°07.0'N
LONGITUDE: 59°22.5'E

STATION: 591
DATE: 3/25
TIME: 13.0
LATITUDE: 21.00.0'N
LONGITUDE: 59°35.5'E

<u>Station 590</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.29	0.01	0.30	71.70
10	0.215	0.005	0.22	
25	0.76	0.03	0.79	
50	0.27	0.085	0.355	
75	0.36	0.11	0.47	
100	0.23	0.06	0.29	
125	0.10	0.07	0.17	
150	0.13	0.08	0.21	
175	0.28	0.09	0.37	
200	0.005	0.165	0.17	

<u>Station 591</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.85	0.07	0.92	78.25	
1.33	0.15	1.48		
1.73	0.07	1.80		
0.10	0.15	0.25		
0.125	0.065	0.19		
0.04	0.07	0.11		
0.04	0.06	0.10		
0.01	0.035	0.045		
0.01	0.04	0.05		
0.005	0.035	0.04		

STATION: 592
DATE: 3/25
TIME: 21.1
LATITUDE: 20°49.0'N
LONGITUDE: 61°01.0'E

STATION: 593
DATE: 3/26
TIME: 06.8
LATITUDE: 20°40.0'N
LONGITUDE: 62°25.0'E

<u>Station 592</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.39	0.00	0.39	44.10
10	0.25	0.03	0.28	
25	0.74	0.07	0.81	
50	0.36	0.06	0.42	
75	0.16	0.06	0.22	
100	0.06	0.03	0.09	
125	0.03	0.02	0.05	
150	0.03	0.04	0.07	
175	0.005	0.025	0.03	
200	0.005	0.03	0.035	

<u>Station 593</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.07	0.00	0.07	13.025	
0.06	0.005	0.065		
0.08	0.00	0.08		
0.135	0.025	0.16		
0.08	0.05	0.13		
0.035	0.015	0.05		
0.01	0.01	0.02		
0.005	0.015	0.02		
0.005	0.015	0.02		
0.005	0.015	0.02		

STATION: 594
DATE: 3/26
TIME: 13.7
LATITUDE: 20°33.0'N
LONGITUDE: 63°50.5'E

STATION: 595
DATE: 3/26
TIME: 01.2
LATITUDE: 20°28.0'N
LONGITUDE: 65°14.0'E

<u>Station 594</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.25	0.02	0.27	34.275
10	0.23	0.01	0.24	
25	0.54	0.06	0.60	
50	0.25	0.06	0.31	
75	0.08	0.035	0.115	
100	0.065	0.025	0.09	
125	0.01	0.015	0.025	
150	0.005	0.025	0.03	
175	0.01	0.08	0.09	
200	0.01	0.10	0.11	

<u>Station 595</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.25	0.02	0.27	22.925
10	0.23	0.01	0.24	
25	0.46	0.05	0.51	
50	0.25	0.07	0.32	
75	0.075	0.025	0.10	
100	0.03	0.04	0.07	
125	0.01	0.02	0.03	
150	0.01	0.01	0.02	
175	0.005	0.015	0.02	
200	0.00	0.02	0.02	

STATION: 596
DATE: 3/27
TIME: 00.1
LATITUDE: 18°56.5'N
LONGITUDE: 61°22.5'E

STATION: 597
DATE: 3/28
TIME: 01.7
LATITUDE: 17°26.0'N
LONGITUDE: 57°12.0'E

<u>Station 596</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.06	0.00	0.06	19.425
10	0.04	0.00	0.04	
25	0.05	0.00	0.05	
50	0.19	0.03	0.22	
75	0.14	0.07	0.21	
100	0.09	0.03	0.12	
125	0.04	0.03	0.07	
150	0.02	0.02	0.04	
175	0.01	0.01	0.02	
200	0.005	0.045	0.05	

<u>Station 597</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.15	0.02	0.17	34.800
10	0.12	0.025	0.145	
25	0.12	0.03	0.15	
50	0.62	0.12	0.74	
75	0.145	0.075	0.22	
100	0.04	0.04	0.08	
125	0.02	0.03	0.05	
150	0.00	0.03	0.03	
175	0.00	0.03	0.03	
200	0.00	0.03	0.03	

STATION: 598
DATE: 3/30
TIME: 11.7
LATITUDE: 15°24.0'N
LONGITUDE: 52°27.5'E

STATION: 599
DATE: 3/30
TIME: 19.8
LATITUDE: 15°24.0'N
LONGITUDE: 53°10.0'E

<u>Station 598</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.145	0.005	0.15	35.475
10	0.09	0.01	0.10	
25	0.185	0.045	0.23	
50	0.735	0.145	0.88	
75	0.09	0.05	0.14	
100	0.05	0.03	0.08	
125	0.01	0.02	0.03	
150	0.00	0.02	0.02	
175	0.00	0.02	0.02	
200	0.00	0.02	0.02	

<u>Station 599</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.12	0.01	0.13	46.725
10	0.105	0.01	0.115	
25	0.09	0.01	0.10	
50	0.25	0.05	0.30	
75	0.57	0.26	0.83	
100	0.33	0.14	0.47	
125	0.055	0.025	0.08	
150	0.02	0.02	0.04	
175	0.00	0.03	0.03	
200	0.00	0.03	0.03	

STATION: 600
DATE: 3/31
TIME: 03.8
LATITUDE: 15°15.5'N
LONGITUDE: 54°36.5'E

STATION: 601
DATE: 3/31
TIME: 13.6
LATITUDE: 15°08.5'N
LONGITUDE: 55°55.5'E

<u>Station 600</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.04	0.00	0.04	25.700
10	0.09	0.01	0.10	
25	0.135	0.015	0.15	
50	0.20	0.03	0.23	
75	0.27	0.09	0.36	
100	0.10	0.04	0.14	
125	0.035	0.025	0.06	
150	0.01	0.02	0.03	
175	0.00	0.02	0.02	
200	0.00	0.02	0.02	

<u>Station 601</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.05	0.005	0.055	19.480
10	0.04	0.00	0.04	
25	0.04	0.00	0.04	
50	0.095	0.015	0.11	
75	0.28	0.03	0.31	
100	0.08	0.05	0.13	
125	0.065	0.035	0.10	
150	0.02	0.015	0.035	
175	0.01	0.01	0.02	
200	0.00	0.02	0.02	

STATION: 602
DATE: 3/31
TIME: 21.6
LATITUDE: 14°58.0'N
LONGITUDE: 57°19.5'E

STATION: 603
DATE: 4/1
TIME: 06.6
LATITUDE: 14°47.0'N
LONGITUDE: 58°42.0'E

<u>Station 602</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.115	0.005	0.12	31.550
10	0.12	0.01	0.13	
25	0.09	0.02	0.11	
50	0.175	0.045	0.22	
75	0.29	0.08	0.37	
100	0.115	0.095	0.21	
125	0.08	0.04	0.12	
150	0.01	0.06	0.07	
175	0.01	0.04	0.05	
200	0.01	0.08	0.09	

<u>Station 603</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.105	0.005	0.11	31.300
10	0.10	0.02	0.12	
25	0.075	0.025	0.10	
50	0.55	0.18	0.73	
75	0.145	0.065	0.21	
100	0.035	0.025	0.06	
125	0.02	0.01	0.03	
150	0.01	0.01	0.02	
175	0.00	0.02	0.02	
200	0.015	0.025	0.04	

STATION: 604
DATE: 4/1
TIME: 14.6
LATITUDE: 14°43.0'N
LONGITUDE: 60°11.0'E

STATION: 605
DATE: 4/1
TIME: 23.6
LATITUDE: 14°34.0'N
LONGITUDE: 61°38.0'E

<u>Station 604</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.115	0.015	0.13	29.625
10	0.08	0.02	0.10	
25	0.09	0.02	0.11	
50	0.20	0.05	0.25	
75	0.225	0.07	0.295	
100	0.12	0.08	0.20	
125	0.04	0.03	0.07	
150	0.01	0.04	0.05	
175	0.05	0.09	0.14	
200	0.00	0.03	0.03	

<u>Station 605</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.08	0.01	0.09	26.550
10	0.09	0.01	0.10	
25	0.10	0.03	0.13	
50	0.165	0.05	0.215	
75	0.25	0.16	0.41	
100	0.06	0.08	0.14	
125	0.03	0.03	0.06	
150	0.01	0.06	0.07	
175	0.005	0.045	0.05	
200	0.005	0.045	0.05	

STATION: 606
DATE: 4/2
TIME: 09.6
LATITUDE: 14°25.5'N
LONGITUDE: 63°01.5'E

STATION: 607
DATE: 4/2
TIME: 20.7
LATITUDE: 14°16.5'N
LONGITUDE: 64°24.0'E

Station 606

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.09	0.01	0.10	40.15
10	0.055	0.045	0.10	
25	0.105	0.015	0.12	
50	0.16	0.02	0.18	
75	0.66	0.10	0.76	
100	0.195	0.035	0.23	
125	0.045	0.025	0.07	
150	0.005	0.015	0.02	
175	0.035	0.105	0.14	
200	0.005	0.075	0.08	

Station 607

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.065	0.015	0.08	21.375
0.08	0.01	0.09	
0.06	0.02	0.08	
0.15	0.05	0.20	
0.29	0.04	0.33	
0.045	0.035	0.08	
0.03	0.02	0.05	
0.005	0.015	0.02	
0.00	0.02	0.02	
0.01	0.12	0.13	

STATION: 608
DATE: 4/3
TIME: 05.2
LATITUDE: 14°07.5'N
LONGITUDE: 65°49.0'E

STATION: 609
DATE: 4/3
TIME: 15.4
LATITUDE: 14°02.5'N
LONGITUDE: 67°13.5'E

Station 608

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.05	0.01	0.06	34.750
10	0.06	0.00	0.06	
25	0.06	0.00	0.06	
50	0.10	0.02	0.12	
75	0.155	0.025	0.18	
100	0.24	0.11	0.35	
125	0.07	0.03	0.10	
150	0.00	0.30	0.30	
175	0.00	0.12	0.12	
200	0.00	0.03	0.03	

Station 609

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.09	0.01	0.10	39.500
0.10	0.015	0.115	
0.08	0.01	0.09	
0.145	0.015	0.16	
0.105	0.145	0.25	
0.47	0.12	0.59	
0.015	0.095	0.11	
0.03	0.13	0.16	
0.01	0.11	0.12	
0.00	0.08	0.08	

STATION: 610
DATE: 4/3
TIME: 00.9
LATITUDE: 14°00.0'N
LONGITUDE: 68°38.5'N

STATION: 611
DATE: 4/4
TIME: 10.6
LATITUDE: 14°03.5'N
LONGITUDE: 69°57.0'E

<u>Station 610</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.09	0.01	0.10	34.575
10	0.07	0.00	0.07	
25	0.075	0.015	0.09	
50	0.18	0.04	0.22	
75	0.51	0.20	0.71	
100	0.09	0.065	0.155	
125	0.01	0.03	0.04	
150	0.005	0.085	0.09	
175	0.00	0.03	0.03	
200	0.00	0.02	0.02	

<u>Station 611</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.22	0.02	0.24	47.050
10	0.15	0.02	0.17	
25	0.205	0.025	0.23	
50	0.585	0.155	0.74	
75	0.10	0.09	0.19	
100	0.135	0.135	0.27	
125	0.055	0.065	0.12	
150	0.03	0.04	0.07	
175	0.10	0.04	0.14	
200	0.04	0.04	0.08	

STATION: 612
DATE: 4/4
TIME: 22.6
LATITUDE: 13°35.0'N
LONGITUDE: 71°33.5'E

STATION: 613
DATE: 4/5
TIME: 21.3
LATITUDE: 09°58.0'N
LONGITUDE: 72°50.5'E

<u>Station 612</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.09	0.00	0.09	22.595
10	0.095	0.005	0.10	
25	0.105	0.01	0.115	
50	0.19	0.035	0.225	
75	0.225	0.085	0.31	
100	0.05	0.02	0.07	
125	0.03	0.03	0.06	
150	0.01	0.02	0.03	
175	0.01	0.03	0.04	
200	0.00	0.015	0.015	

<u>Station 613</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.04	0.01	0.05	33.850
10	0.025	0.005	0.03	
25	0.045	0.005	0.05	
50	0.045	0.01	0.055	
75	0.37	0.11	0.48	
100	0.27	0.11	0.38	
125	0.115	0.095	0.21	
150	0.04	0.05	0.09	
175	0.025	0.035	0.06	
200	0.00	0.025	0.025	

STATION: 614
DATE: 4/6
TIME: 06.6
LATITUDE: 09°57.0'N
LONGITUDE: 74°11.0'E

STATION: 615
DATE: 4/6
TIME: 16.8
LATITUDE: 09°52.0'N
LONGITUDE: 75°19.0'E

Station 614

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.15	0.02	0.17	38.450
10	0.15	0.03	0.18	
25	0.095	0.015	0.11	
50	0.12	0.03	0.15	
75	0.525	0.065	0.59	
100	0.25	0.13	0.38	
125	0.06	0.06	0.12	
150	0.015	0.03	0.045	
175	0.01	0.02	0.03	
200	0.00	0.02	0.02	

Station 615

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.16	0.02	0.18	34.825
0.13	0.02	0.15	
0.20	0.04	0.24	
0.27	0.07	0.34	
0.27	0.25	0.52	
0.045	0.055	0.10	
0.02	0.04	0.06	
0.01	0.02	0.03	
0.005	0.025	0.03	
0.00	0.02	0.02	

STATION: 616
DATE: 4/6
TIME: 00.2
LATITUDE: 08°57.5'N
LONGITUDE: 74°43.0'E

STATION: 617
DATE: 4/7
TIME: 07.9
LATITUDE: 07°58.5'N
LONGITUDE: 74°09.0'E

Station 616

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.09	0.00	0.09	40.300
10	0.08	0.00	0.08	
25	0.075	0.005	0.08	
50	0.10	0.01	0.11	
75	0.71	0.20	0.91	
100	0.215	0.105	0.32	
125	0.035	0.035	0.07	
150	0.02	0.03	0.05	
175	0.005	0.015	0.02	
200	0.00	0.02	0.02	

Station 617

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.11	0.00	0.11	29.20
0.045	0.015	0.06	
0.08	0.02	0.10	
0.105	0.005	0.11	
0.31	0.09	0.40	
0.175	0.125	0.30	
0.07	0.07	0.14	
0.015	0.03	0.045	
0.01	0.02	0.03	
0.00	0.02	0.02	

STATION: 618
DATE: 4/7
TIME: 16.6
LATITUDE: 07°01.5'N
LONGITUDE: 73°24.0'E

STATION: 619
DATE: 4/7
TIME: 03.7
LATITUDE: 06°53.0'N
LONGITUDE: 75°05.0'E

<u>Station 618</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.10	0.01	0.11	32.150
10	0.11	0.01	0.12	
25	0.07	0.01	0.08	
50	0.095	0.025	0.12	
75	0.44	0.18	0.62	
100	0.08	0.14	0.22	
125	0.03	0.06	0.09	
150	0.02	0.04	0.06	
175	0.00	0.02	0.02	
200	0.00	0.02	0.02	

<u>Station 619</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.05	0.00	0.05	21.725	
0.03	0.00	0.03		
0.05	0.01	0.06		
0.07	0.00	0.07		
0.12	0.04	0.16		
0.23	0.14	0.37		
0.105	0.04	0.145		
0.01	0.02	0.03		
0.005	0.015	0.02		
0.00	0.01	0.01		

STATION: 620
DATE: 4/8
TIME: 15.1
LATITUDE: 06°56.0'N
LONGITUDE: 76°46.5'E

STATION: 621
DATE: 4/13
TIME: 08.0
LATITUDE: 05°39.5'N
LONGITUDE: 79°45.5'E

<u>Station 620</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.125	0.015	0.14	30.500
10	0.08	0.04	0.12	
25	0.12	0.02	0.14	
50	0.115	0.025	0.14	
75	0.115	0.085	0.20	
100	0.32	0.22	0.54	
125	0.02	0.05	0.07	
150	0.00	0.03	0.03	
175	0.00	0.03	0.03	
200	0.00	0.02	0.02	

<u>Station 621</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.14	0.005	0.145	40.35	
0.135	0.015	0.15		
0.13	0.02	0.15		
0.15	0.03	0.18		
0.38	0.19	0.57		
0.155	0.175	0.33		
0.10	0.07	0.17		
0.075	0.025	0.10		
0.04	0.04	0.08		
0.06	0.04	0.10		

STATION: 622
DATE: 4/13
TIME: 16.0
LATITUDE: 05°34.0'N
LONGITUDE: 78°36.0'E

STATION: 623
DATE: 4/13
TIME: 0.00
LATITUDE: 05°28.0'N
LONGITUDE: 77°19.0'E

<u>Station 622</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.07	0.01	0.08	31.28
10	0.07	0.01	0.08	
25	0.08	0.02	0.10	
50	0.18	0.05	0.23	
75	0.26	0.20	0.46	
100	0.09	0.095	0.185	
125	0.03	0.03	0.06	
150	0.05	0.04	0.09	
175	--	--	--	
200	0.01	0.03	0.04	

<u>Station 623</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.07	0.03	0.10	33.025	
0.10	0.03	0.13		
0.10	0.02	0.12		
0.16	0.05	0.21		
0.31	0.16	0.47		
0.135	0.125	0.26		
0.05	0.05	0.10		
0.02	0.03	0.05		
0.005	0.025	0.03		
0.01	0.02	0.03		

STATION: 624
DATE: 4/14
TIME: (04.3)
LATITUDE: 05°19.5'N
LONGITUDE: 76°05.0'E

STATION: 625
DATE: 4/14
TIME: 16.5
LATITUDE: 05°05.0'N
LONGITUDE: 74°41.5'E

<u>Station 624</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.13	0.02	0.15	34.625
10	0.14	0.02	0.16	
25	0.13	0.02	0.15	
50	0.175	0.035	0.21	
75	0.30	0.13	0.43	
100	0.175	0.115	0.29	
125	0.06	0.05	0.11	
150	0.03	0.04	0.07	
175	0.01	0.02	0.03	
200	0.01	0.02	0.03	

<u>Station 625</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.105	0.015	0.12	31.275	
0.075	0.025	0.10		
0.105	0.035	0.14		
0.13	0.09	0.22		
0.145	0.165	0.31		
0.205	0.185	0.39		
0.03	0.035	0.065		
0.01	0.02	0.03		
0.01	0.025	0.035		
0.01	0.02	0.03		

STATION: 626
DATE: 4/14
TIME: 23.0
LATITUDE: 05°02.5'N
LONGITUDE: 73°48.0'E

STATION: 627
DATE: 4/14
TIME: (23.4)
LATITUDE: 05°00.0'N
LONGITUDE: 73°11.5'E

<u>Station 626</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.10	0.04	0.14	40.30
10	0.095	0.025	0.12	
25	0.13	0.03	0.16	
50	0.15	0.03	0.18	
75	0.47	0.22	0.69	
100	0.135	0.185	0.32	
125	0.05	0.065	0.115	
150	0.01	0.03	0.04	
175	0.005	0.025	0.03	
200	0.015	0.03	0.045	

Station 627
Chl a Phaeo Total Pigment
mg/m³ mg/m³ mg/m³ mg/m²
Did not take samples

STATION: 628
DATE: 4/15
TIME: 07.5
LATITUDE: 04°59.0'N
LONGITUDE: 72°37.5'E

STATION: 629
DATE: 4/15
TIME: 16.5
LATITUDE: 04°59.0'N
LONGITUDE: 71°14.0'E

<u>Station 628</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.15	0.00	0.15	46.735
10	0.105	0.015	0.12	
25	0.17	0.02	0.19	
50	0.19	0.015	0.205	
75	0.36	0.135	0.495	
100	0.125	0.12	0.245	
125	0.10	0.06	0.16	
150	0.245	0.185	0.43	
175	0.03	0.04	0.07	
200	0.015	0.03	0.045	

<u>Station 629</u>				
<u>Chl a</u>	<u>Phaeo</u>	<u>Total</u>	<u>Pigment</u>	
<u>mg/m³</u>	<u>mg/m³</u>	<u>mg/m³</u>	<u>mg/m²</u>	
0.075	0.02	0.095	38.205	
0.075	0.025	0.10		
0.06	0.02	0.08		
0.185	0.025	0.21		
0.505	0.135	0.64		
0.205	0.015	0.22		
0.08	0.10	0.18		
0.02	0.035	0.055		
0.025	0.045	0.07		
0.01	0.03	0.04		

STATION: 630
DATE: 4/15
TIME: 02.0
LATITUDE: 05°03.0'N
LONGITUDE: 69°50.0'E

STATION: 631
DATE: 4/16
TIME: 10.0
LATITUDE: 05°07.0'N
LONGITUDE: 68°30.5'E

<u>Station 630</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.045	0.015	0.06	34.70
10	0.05	0.02	0.07	
25	0.055	0.015	0.07	
50	0.175	0.045	0.22	
75	0.34	0.19	0.53	
100	0.215	0.165	0.38	
125	0.08	0.085	0.165	
150	0.015	0.03	0.045	
175	0.01	0.02	0.03	
200	0.01	0.02	0.03	

<u>Station 631</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.05	0.02	0.07	35.82	
0.05	0.02	0.07		
0.095	0.01	0.105		
0.11	0.025	0.135		
0.33	0.13	0.46		
0.175	0.195	0.37		
0.10	0.11	0.21		
0.02	0.04	0.06		
0.02	0.025	0.045		
0.015	0.025	0.04		

STATION: 632
DATE: 4/16
TIME: 17.5
LATITUDE: 05°02.5'N
LONGITUDE: 67°12.0'E

STATION: 633
DATE: 4/17
TIME: 01.5
LATITUDE: 04°59.5'N
LONGITUDE: 65°44.0'E

<u>Station 632</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.055	0.005	0.06	32.025
10	0.045	0.015	0.06	
25	0.07	0.01	0.08	
50	0.09	0.015	0.105	
75	0.115	0.065	0.18	
100	0.33	0.17	0.50	
125	0.135	0.145	0.28	
150	0.03	0.03	0.06	
175	0.01	0.03	0.04	
200	0.01	0.02	0.03	

<u>Station 633</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.055	0.015	0.07	35.50	
0.07	0.02	0.09		
0.10	0.02	0.12		
0.19	0.07	0.26		
0.175	0.145	0.32		
0.165	0.135	0.30		
0.10	0.10	0.20		
0.04	0.05	0.09		
0.03	0.05	0.08		
0.01	0.02	0.03		

STATION: 634
DATE: 4/17
TIME: 12.5
LATITUDE: 05°11.0'N
LONGITUDE: 64°31.0'E

STATION: 635
DATE: 4/17
TIME: 21.5
LATITUDE: 05°01.5'N
LONGITUDE: 63°07.5'E

<u>Station 634</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.075	0.025	0.10	38.925
10	0.09	0.03	0.12	
25	0.115	0.025	0.14	
50	0.19	0.05	0.24	
75	0.32	0.13	0.45	
100	0.155	0.175	0.33	
125	0.07	0.09	0.16	
150	0.04	0.05	0.09	
175	0.04	0.04	0.08	
200	0.01	0.02	0.03	

<u>Station 635</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.09	0.03	0.12	25.025	
0.09	0.03	0.12		
0.11	0.03	0.14		
0.15	0.03	0.18		
0.10	0.04	0.14		
0.195	0.115	0.31		
0.055	0.035	0.09		
0.015	0.025	0.04		
0.01	0.02	0.03		
0.01	0.02	0.03		

STATION: 636
DATE: 4/18
TIME: 06.0
LATITUDE: 05°02.5'N
LONGITUDE: 61°49.5'E

STATION: 637
DATE: 4/18
TIME: 15.0
LATITUDE: 05°03.5'N
LONGITUDE: 60°28.5'E

<u>Station 636</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.05	0.01	0.06	17.00
10	0.05	0.01	0.06	
25	0.05	0.01	0.06	
50	0.07	0.01	0.08	
75	0.135	0.065	0.20	
100	0.08	0.07	0.15	
125	0.04	0.04	0.08	
150	0.02	0.03	0.05	
175	0.01	0.01	0.02	
200	0.005	0.015	0.02	

<u>Station 637</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.06	0.01	0.07	40.45	
0.09	0.03	0.12		
0.105	0.025	0.13		
0.15	0.03	0.18		
0.36	0.12	0.48		
0.215	0.205	0.42		
0.10	0.13	0.23		
0.03	0.04	0.07		
0.015	0.035	0.05		
0.005	0.015	0.02		

STATION: 638
DATE: 4/18
TIME: 00.0
LATITUDE: 05°03.0'N
LONGITUDE: 58°57.0'E

STATION: 639
DATE: 4/19
TIME: 08.0
LATITUDE: 05°02.0'N
LONGITUDE: 57°41.0'E

<u>Station 638</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.05	0.03	0.08	36.68
10	0.045	0.015	0.06	
25	0.045	0.025	0.07	
50	0.09	0.03	0.12	
75	0.29	0.21	0.50	
100	0.24	0.17	0.41	
125	0.10	0.13	0.23	
150	0.02	0.03	0.05	
175	0.015	0.025	0.04	
200	0.005	0.025	0.03	

<u>Station 639</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.055	0.005	0.06	30.35	
0.055	0.025	0.08		
0.08	0.01	0.09		
0.11	0.02	0.13		
0.185	0.055	0.24		
0.25	0.12	0.37		
0.125	0.095	0.22		
0.04	0.04	0.08		
0.02	0.02	0.04		
0.01	0.01	0.02		

STATION: 640
DATE: 4/19
TIME: 18.2
LATITUDE: 05°01.5'N
LONGITUDE: 56°20.0'E

STATION: 641
DATE: 4/19
TIME: 02.5
LATITUDE: 05°00.0'N
LONGITUDE: 54°50.5'E

<u>Station 640</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.03	0.01	0.04	21.25
10	0.025	0.005	0.03	
25	0.03	0.01	0.04	
50	0.065	0.005	0.07	
75	0.13	0.05	0.18	
100	0.16	0.14	0.30	
125	0.08	0.06	0.14	
150	0.02	0.03	0.05	
175	0.02	0.02	0.04	
200	0.015	0.015	0.03	

<u>Station 641</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.05	0.01	0.06	40.675	
0.055	0.01	0.065		
0.07	0.01	0.08		
0.105	0.03	0.135		
0.40	0.13	0.53		
0.225	0.155	0.38		
0.175	0.085	0.26		
0.05	0.05	0.10		
0.035	0.025	0.06		
0.015	0.025	0.04		

STATION: 642
DATE: 4/20
TIME: 10.2
LATITUDE: 05°00.0'N
LONGITUDE: 53°38.0'E

STATION: 643
DATE: 4/20
TIME: 18.0
LATITUDE: 05°02.0'N
LONGITUDE: 52°12.5'E

<u>Station 642</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.06	0.01	0.07	31.80
10	0.07	0.02	0.09	
25	0.09	0.02	0.11	
50	0.105	0.025	0.13	
75	0.165	0.175	0.34	
100	0.195	0.135	0.33	
125	0.07	0.11	0.18	
150	0.04	0.05	0.09	
175	0.015	0.025	0.04	
200	0.005	0.025	0.03	

<u>Station 643</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.04	0.01	0.05	34.55
10	0.06	0.01	0.07	
25	0.075	0.015	0.09	
50	0.12	0.03	0.15	
75	0.175	0.215	0.39	
100	0.115	0.155	0.27	
125	0.02	0.20	0.22	
150	0.045	0.075	0.12	
175	0.04	0.05	0.09	
200	0.02	0.03	0.05	

STATION: 644
DATE: 4/21
TIME: (00.6)
LATITUDE: 05°02.0'N
LONGITUDE: 50°58.0'E

STATION: 645
DATE: 4/21
TIME: 07.3
LATITUDE: 05°04.0'N
LONGITUDE: 50°30.0'E

<u>Station 644</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

<u>Station 645</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.05	0.00	0.05	29.13
10	0.05	0.01	0.06	
25	0.04	0.01	0.05	
50	0.08	0.02	0.10	
75	0.235	0.05	0.285	
100	0.17	0.12	0.29	
125	0.10	0.09	0.19	
150	0.07	0.05	0.12	
175	0.04	0.025	0.065	
200	0.04	0.03	0.07	

STATION: 646
DATE: 4/21
TIME: (10.9)
LATITUDE: 05°04.0'N
LONGITUDE: 50°00.0'E

STATION: 647
DATE: 4/21
TIME: 17.7
LATITUDE: 05°02.0'N
LONGITUDE: 49°41.0'E

Station 646

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

Station 647

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.065	0.015	0.08	23.225
0.10	0.00	0.10	
0.08	0.03	0.11	
0.085	0.015	0.10	
0.105	0.035	0.14	
0.165	0.105	0.27	
0.05	0.06	0.11	
0.04	0.05	0.09	
0.02	0.03	0.05	
0.01	0.02	0.03	

STATION: 648
DATE: 4/21
TIME: 23.5
LATITUDE: 05°05.0'N
LONGITUDE: 48°57.0'E

STATION: 649
DATE: 4/22
TIME: 07.7
LATITUDE: 04°03.0'N
LONGITUDE: 48°27.0'E

Station 648

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.075	0.075	0.15	24.90
10	0.05	0.04	0.09	
25	0.045	0.025	0.07	
50	0.085	0.025	0.11	
75	0.15	0.08	0.23	
100	0.19	0.18	0.37	
125	0.045	0.035	0.08	
150	0.01	0.02	0.03	
175	0.01	0.02	0.03	
200	0.00	0.02	0.02	

Station 649

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.08	0.02	0.10	23.725
0.06	0.02	0.08	
0.06	0.02	0.08	
0.095	0.015	0.11	
0.105	0.025	0.13	
0.12	0.02	0.14	
0.20	0.11	0.31	
0.05	0.04	0.09	
0.02	0.02	0.04	
0.005	0.015	0.02	

STATION: 650
DATE: 4/22
TIME: 16.5
LATITUDE: 03°00.0'N
LONGITUDE: 49°11.0'E

STATION: 651
DATE: 4/23
TIME: 02.5
LATITUDE: 01°56.5'N
LONGITUDE: 49°42.5'E

<u>Station 650</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.04	0.02	0.06	35.850
10	0.05	0.02	0.07	
25	0.06	0.01	0.07	
50	0.07	0.02	0.09	
75	--	--	--	
100	0.30	0.24	0.54	
125	0.09	0.105	0.195	
150	0.065	0.05	0.115	
175	0.02	0.03	0.05	
200	0.025	0.025	0.05	

<u>Station 651</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.05	0.02	0.07	31.385
0.045	0.02	0.065	
0.065	0.015	0.08	
0.09	0.03	0.12	
0.12	0.09	0.21	
0.225	0.175	0.40	
0.135	0.135	0.27	
0.04	0.05	0.09	
0.015	0.025	0.04	
0.01	0.02	0.03	

STATION: 652
DATE: 4/23
TIME: 07.3
LATITUDE: 01°33.0'N
LONGITUDE: 50°07.0'E

STATION: 653
DATE: 4/23
TIME: (10.6)
LATITUDE: 00°58.0'N
LONGITUDE: 50°28.0'E

<u>Station 652</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.065	0.005	0.07	21.00
10	0.05	0.00	0.05	
25	0.06	0.01	0.07	
50	0.10	0.01	0.11	
75	0.175	0.055	0.23	
100	0.10	0.02	0.12	
125	0.10	0.02	0.12	
150	0.045	0.04	0.085	
175	0.04	0.03	0.07	
200	0.005	0.015	0.02	

<u>Station 653</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
Did not take samples.			

STATION: 654
DATE: 4/23
TIME: (14.9)
LATITUDE: 00°34.0'N
LONGITUDE: 50°48.0'E

STATION: 655
DATE: 4/23
TIME: (21.2)
LATITUDE: 00°00.0'N
LONGITUDE: 51°10.0'E

Station 654

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

Station 655

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
Did not take samples.			

STATION: 656
DATE: 4/24
TIME: 22.0
LATITUDE: 00°27.0'S
LONGITUDE: 51°29.0'E

STATION: 657
DATE: 4/24
TIME: (07.0)
LATITUDE: 00°59.0'S
LONGITUDE: 51°48.0'E

Station 656

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.045	0.005	0.05	33.475
10	0.05	0.01	0.06	
25	0.07	0.01	0.08	
50	0.14	0.03	0.17	
75	0.30	0.20	0.50	
100	0.175	0.095	0.27	
125	0.10	0.04	0.14	
150	0.065	0.035	0.10	
175	0.015	0.025	0.04	
200	0.005	0.025	0.03	

Station 657

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
Did not take samples.			

STATION: 658
DATE: 4/24
TIME: (12.2)
LATITUDE: 01°28.0'S
LONGITUDE: 52°06.5'E

STATION: 659
DATE: 4/24
TIME: 11.2
LATITUDE: 02°03.5'S
LONGITUDE: 52°30.0'E

Station 658

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.09	0.03	0.12	39.65
10	0.07	0.02	0.09	
25	0.10	0.03	0.13	
50	0.13	0.04	0.17	
75	0.25	0.28	0.53	
100	0.30	0.11	0.41	
125	0.08	0.09	0.17	
150	0.03	0.025	0.055	
175	0.045	0.005	0.05	
200	0.005	0.03	0.035	

Station 659

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.095	0.025	0.12	43.625
0.10	0.02	0.12	
0.135	0.035	0.17	
0.17	0.01	0.18	
0.28	0.14	0.42	
0.41	0.11	0.52	
0.18	0.055	0.235	
0.055	0.045	0.10	
0.015	0.035	0.05	
0.005	0.035	0.04	

STATION: 660
DATE: 4/25
TIME: 03.1
LATITUDE: 03°08.0'S
LONGITUDE: 52°57.0'E

STATION: 661
DATE: 4/25
TIME: 13.0
LATITUDE: 04°05.0'S
LONGITUDE: 53°26.0'E

Station 660

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.05	0.01	0.06	33.00
10	0.05	0.02	0.07	
25	0.095	0.025	0.12	
50	0.145	0.035	0.18	
75	0.33	0.15	0.48	
100	--	--	--	
125	0.045	0.035	0.08	
150	0.06	0.045	0.105	
175	0.01	0.025	0.035	
200	0.005	0.035	0.04	

Station 661

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.085	0.005	0.09	35.35
0.08	0.01	0.09	
0.11	0.02	0.13	
0.45	0.08	0.53	
0.27	0.07	0.34	
0.145	0.035	0.18	
0.055	0.035	0.09	
0.025	0.03	0.055	
0.015	0.025	0.04	
0.01	0.015	0.025	

STATION: 662
DATE: 4/25
TIME: (18.3)
LATITUDE: 04°04.0'S
LONGITUDE: 52°06.0'E

STATION: 663
DATE: 4/26
TIME: 06.0
LATITUDE: 03°56.5'S
LONGITUDE: 50°47.0'E

Station 662

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.03	0.01	0.04	12.25
10	0.035	0.005	0.04	
25	0.04	0.00	0.04	
50	0.06	0.02	0.08	
75	0.145	0.075	0.22	
100	0.04	0.03	0.07	
125	0.01	0.02	0.03	
150	0.01	0.005	0.015	
175	0.005	0.005	0.01	
200	0.005	0.005	0.01	

Station 663

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.06	0.01	0.07	30.05
0.05	0.01	0.06	
0.055	0.015	0.07	
0.075	0.025	0.10	
0.31	0.18	0.49	
0.155	0.195	0.35	
0.035	0.055	0.09	
0.01	0.015	0.025	
0.01	0.03	0.04	
0.01	0.005	0.015	

STATION: 664
DATE: 4/26
TIME: 14.0
LATITUDE: 03°58.0'S
LONGITUDE: 49°24.0'E

STATION: 665
DATE: 4/26
TIME: 00.5
LATITUDE: 03°52.0'S
LONGITUDE: 48°03.0'E

Station 664

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.10	0.01	0.11	19.05
10	0.105	0.015	0.12	
25	0.135	0.015	0.15	
50	0.24	0.05	0.29	
75	0.075	0.055	0.13	
100	0.01	0.02	0.03	
125	0.01	0.01	0.02	
150	0.04	0.02	0.06	
175	0.01	0.01	0.02	
200	0.01	0.01	0.02	

Station 665

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.08	0.02	0.10	31.075
0.055	0.015	0.07	
0.08	0.03	0.11	
0.11	0.04	0.15	
0.42	0.21	0.63	
0.10	0.11	0.21	
0.02	0.04	0.06	
0.005	0.015	0.02	
0.005	0.015	0.02	
0.005	0.015	0.02	

STATION: 666
DATE: 4/27
TIME: 09.0
LATITUDE: 03°52.0'S
LONGITUDE: 46°37.0'E

STATION: 667
DATE: 4/27
TIME: 13.5
LATITUDE: 03°57.0'S
LONGITUDE: 45°13.0'E

Station 666

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.04	0.02	0.06	43.075
10	0.045	0.025	0.07	
25	0.10	0.02	0.12	
50	0.31	0.045	0.355	
75	0.35	0.14	0.49	
100	0.20	0.095	0.295	
125	0.125	0.145	0.27	
150	0.07	0.06	0.13	
175	0.01	0.02	0.03	
200	0.005	0.015	0.02	

Station 667

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.045	0.005	0.05	42.75
0.045	0.01	0.055	
0.05	0.01	0.06	
0.235	0.085	0.32	
0.36	0.14	0.50	
0.185	0.105	0.29	
0.03	0.035	0.065	
0.08	0.12	0.20	
0.04	0.13	0.17	
0.04	0.13	0.17	

STATION: 668
DATE: 4/28
TIME: 18.0
LATITUDE: 04°08.0'S
LONGITUDE: 43°54.0'E

STATION: 669
DATE: 4/28
TIME: 20.2
LATITUDE: 04°07.0'S
LONGITUDE: 42°30.0'E

Station 668

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.08	0.03	0.11	46.950
10	0.065	0.015	0.08	
25	0.10	0.03	0.13	
50	0.42	0.11	0.53	
75	0.41	0.13	0.54	
100	0.155	0.105	0.26	
125	0.105	0.09	0.195	
150	0.155	0.115	0.27	
175	0.025	0.04	0.065	
200	0.01	0.03	0.04	

Station 669

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.06	0.01	0.07	32.625
0.05	0.02	0.07	
0.075	0.025	0.10	
0.095	0.025	0.12	
0.27	0.11	0.38	
0.135	0.145	0.28	
0.10	0.045	0.145	
0.03	0.04	0.07	
--	--	--	
0.035	0.035	0.07	

STATION: 670
DATE: 4/28
TIME: 20.5
LATITUDE: 03°56.0'S
LONGITUDE: 41°22.0'E

STATION: 671
DATE: 4/29
TIME: 03.0
LATITUDE: 03°49.0'S
LONGITUDE: 40°41.0'E

<u>Station 670</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.04	0.015	0.055	44.13
10	0.06	0.02	0.08	
25	0.06	0.03	0.09	
50	0.215	0.085	0.30	
75	0.28	0.20	0.48	
100	0.25	0.18	0.43	
125	0.135	0.125	0.26	
150	0.06	0.06	0.12	
175	0.015	0.025	0.04	
200	0.005	0.02	0.025	

<u>Station 671</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.055	0.015	0.07	34.70	
0.07	0.02	0.09		
0.05	0.02	0.07		
0.14	0.05	0.19		
0.135	0.085	0.22		
0.195	0.16	0.355		
0.145	0.125	0.27		
0.07	0.06	0.13		
0.05	0.04	0.09		
0.015	0.02	0.035		

STATION: 672
DATE: 4/29
TIME: (04.4)
LATITUDE: 03°46.0'S
LONGITUDE: 40°10.0'E

STATION: 673
DATE: 5/5
TIME: 22.5
LATITUDE: 10°43.0'S
LONGITUDE: 40°53.5'E

<u>Station 672</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

<u>Station 673</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.075	0.025	0.10	51.85	
0.08	0.02	0.10		
0.06	0.02	0.08		
0.105	0.035	0.14		
0.205	0.055	0.26		
0.46	0.03	0.49		
0.27	0.16	0.43		
0.24	0.12	0.36		
0.10	0.075	0.175		
0.07	0.06	0.13		

STATION: 674
DATE: 5/6
TIME: 09.5
LATITUDE: 11°14.0'S
LONGITUDE: 41°57.8'E

STATION: 675
DATE: 5/6
TIME: 16.4
LATITUDE: 11°39.2'S
LONGITUDE: 43°07.5'E

	<u>Station 674</u>					<u>Station 675</u>			
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>		<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.065	0.015	0.08	36.65		0.10	0.04	0.14	47.35
10	0.11	0.02	0.13			0.105	0.045	0.15	
25	0.09	0.01	0.10			0.08	0.04	0.12	
50	0.11	0.03	0.14			0.125	0.055	0.18	
75	0.27	0.10	0.37			0.39	0.17	0.56	
100	0.205	0.125	0.33			0.27	0.22	0.49	
125	0.105	0.105	0.21			0.09	0.12	0.21	
150	0.065	0.045	0.11			0.06	0.08	0.14	
175	0.025	0.035	0.06			0.04	0.05	0.09	
200	0.01	0.16	0.17			0.02	0.03	0.05	

STATION: 676
DATE: 5/6
TIME: (21.0)
LATITUDE: 12°03.5'S
LONGITUDE: 43°39.0'E

STATION: 677
DATE: 5/8
TIME: 04.0
LATITUDE: 12°34.0'S
LONGITUDE: 44°24.8'E

<u>Station 676</u>					<u>Station 677</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0	Did not take samples.				0.195	0.025	0.22	42.545	
10					0.10	0.03	0.13		
25					0.095	0.02	0.115		
50					0.145	0.03	0.175		
75					0.46	0.10	0.56		
100					0.225	0.085	0.31		
125					0.115	0.075	0.19		
150					0.03	0.10	0.13		
175					0.10	0.01	0.11		
200					0.025	0.025	0.05		

STATION: 678
DATE: 5/8
TIME: 15.2
LATITUDE: 13°11.0'S
LONGITUDE: 45°32.8'E

STATION: 679
DATE: 5/8
TIME: 20.0
LATITUDE: 13°20.0'S
LONGITUDE: 46°33.5'E

Station 678

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.15	0.04	0.19	62.475
10	0.215	0.025	0.24	
25	0.185	0.035	0.22	
50	0.27	0.03	0.30	
75	0.88	0.10	0.98	
100	0.26	0.17	0.43	
125	0.185	0.075	0.26	
150	0.11	0.02	0.13	
175	0.02	0.03	0.05	
200	0.015	0.015	0.03	

Station 679

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.065	0.00	0.065	40.50
0.065	0.005	0.07	
0.055	0.01	0.065	
0.38	0.11	0.49	
0.32	0.17	0.49	
0.095	0.075	0.17	
0.06	0.04	0.10	
0.065	0.095	0.16	
0.03	0.03	0.06	
0.015	0.02	0.035	

STATION: 680
DATE: 5/9
TIME: 06.2
LATITUDE: 13°34.5'S
LONGITUDE: 47°36.0'E

STATION: 681
DATE: 5/11
TIME: 18.7
LATITUDE: 11°48.0'S
LONGITUDE: 49°40.0'E

Station 680

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.13	0.02	0.15	24.875
10	0.03	0.10	0.13	
25	0.105	0.025	0.13	
50	0.105	0.035	0.14	
75	0.205	0.065	0.27	
100	--	--	--	
125	0.055	0.055	0.11	
150	0.015	0.025	0.04	
175	0.01	0.03	0.04	
200	0.005	0.015	0.02	

Station 681

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.05	0.02	0.07	33.95
0.065	0.015	0.08	
0.08	0.03	0.11	
0.08	0.03	0.11	
0.155	0.065	0.22	
0.24	0.155	0.395	
0.11	0.085	0.195	
0.025	0.035	0.06	
0.005	0.015	0.02	
0.01	0.02	0.03	

STATION: 682
DATE: 5/12
TIME: 04.5
LATITUDE: 11°05.0'S
LONGITUDE: 50°15.5'E

STATION: 683
DATE: 5/12
TIME: 13.5
LATITUDE: 10°27.0'S
LONGITUDE: 51°01.0'E

<u>Station 682</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.12	0.06	0.18	48.525
10	0.195	0.045	0.24	
25	0.135	0.065	0.20	
50	0.26	0.17	0.43	
75	0.225	0.175	0.40	
100	0.175	0.135	0.31	
125	0.115	0.105	0.22	
150	0.115	0.085	0.20	
175	0.02	0.03	0.05	
200	0.01	0.02	0.03	

<u>Station 683</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.165	0.045	0.21	68.930	
0.205	0.065	0.27		
0.28	0.175	0.455		
0.36	0.24	0.60		
0.545	0.035	0.58		
0.32	0.18	0.50		
0.135	0.105	0.24		
0.08	0.09	0.17		
0.055	0.045	0.10		
0.02	0.03	0.05		

STATION: 684
DATE: 5/12
TIME: 18.5
LATITUDE: 10°02.5'S
LONGITUDE: 51°23.0'E

STATION: 685
DATE: 5/12
TIME: 06.0
LATITUDE: 10°03.0'S
LONGITUDE: 52°52.0'E

<u>Station 684</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.155	0.055	0.21	54.175
10	0.165	0.055	0.22	
25	0.155	0.055	0.21	
50	0.255	0.175	0.43	
75	0.27	0.21	0.48	
100	--	--	--	
125	0.145	0.135	0.28	
150	0.08	0.075	0.155	
175	0.05	0.04	0.09	
200	0.025	0.04	0.065	

<u>Station 685</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.155	0.055	0.21	45.875	
0.215	0.065	0.28		
0.195	0.065	0.26		
0.24	0.14	0.38		
0.24	0.18	0.42		
0.105	0.125	0.23		
0.105	0.095	0.20		
0.05	0.07	0.12		
0.03	0.04	0.07		
0.02	0.03	0.05		

STATION: 686
DATE: 5/13
TIME: 16.0
LATITUDE: 10°01.5'S
LONGITUDE: 54°07.0'E

STATION: 687
DATE: 04.0
TIME: 10°01.5'S
LATITUDE: 55°27.7'E
LONGITUDE:

<u>Station 686</u>					<u>Station 687</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0	0.31	0.10	0.41	78.30	0.155	0.055	0.21	54.05	
10	0.33	0.10	0.43		0.155	0.055	0.21		
25	0.39	0.11	0.50		0.185	0.045	0.23		
50	0.51	0.28	0.79		0.31	0.13	0.44		
75	0.51	0.33	0.84		0.27	0.21	0.48		
100	0.185	0.225	0.41		0.14	0.12	0.26		
125	0.105	0.105	0.21		0.315	0.205	0.42		
150	0.045	0.045	0.09		0.08	0.075	0.155		
175	0.015	0.045	0.06		0.02	0.03	0.05		
200	0.04	0.04	0.08		0.015	0.035	0.05		

STATION: 688
DATE: 5/14
TIME: 12.5
LATITUDE: 09°56.0'S
LONGITUDE: 56°53.0'E

STATION: 689
DATE: 5/14
TIME: 22.2
LATITUDE: 09°56.2'S
LONGITUDE: 58°20.3'E

<u>Station 688</u>					<u>Station 689</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0	0.165	0.045	0.21	24.075	0.145	0.065	0.21	36.175	
10	0.145	0.045	0.19		0.205	0.055	0.26		
25	0.25	0.07	0.32		0.175	0.055	0.23		
50	0.37	0.17	0.54		0.31	0.13	0.44		
75	0.215	0.165	0.38		0.255	0.125	0.38		
100	0.115	0.105	0.22		0.285	0.115	0.40		
125	0.06	0.05	0.11		0.06	0.03	0.09		
150	0.04	0.03	0.07		0.05	0.03	0.08		
175	0.015	0.025	0.04		0.02	0.03	0.05		
200	0.005	0.015	0.02		0.015	0.025	0.04		

STATION: 690
DATE: 5/15
TIME: 08.2
LATITUDE: 09°42.0'S
LONGITUDE: 59°49.0'E

STATION: 691
DATE: 5/15
TIME: 16.5
LATITUDE: 09°28.0'S
LONGITUDE: 61°11.0'E

<u>Station 690</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.06	0.01	0.07	51.89
10	0.175	0.03	0.205	
25	0.335	0.045	0.38	
50	0.37	0.20	0.57	
75	0.37	0.22	0.59	
100	0.155	0.135	0.29	
125	0.02	0.09	0.11	
150	0.01	0.03	0.04	
175	0.005	0.035	0.04	
200	0.01	0.02	0.03	

<u>Station 691</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.145	0.025	0.17	35.31	
0.15	0.025	0.175		
0.195	0.025	0.22		
0.42	0.085	0.505		
0.205	0.065	0.27		
0.075	0.06	0.135		
0.045	0.035	0.08		
0.02	0.03	0.05		
0.025	0.035	0.06		
0.01	0.02	0.03		

STATION: 692
DATE: 5/15
TIME: 03.5
LATITUDE: 09°12.0'S
LONGITUDE: 62°32.0'E

STATION: 693
DATE: 5/16
TIME: 11.5
LATITUDE: 08°57.0'S
LONGITUDE: 63°55.0'E

<u>Station 692</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.12	0.01	0.13	41.085
10	0.16	0.01	0.17	
25	0.185	0.015	0.20	
50	0.33	0.08	0.41	
75	0.31	0.13	0.44	
100	0.165	0.145	0.31	
125	0.045	0.03	0.075	
150	0.04	0.025	0.065	
175	0.025	0.035	0.06	
200	0.005	0.02	0.025	

<u>Station 693</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.105	0.035	0.14	51.00	
0.075	0.045	0.12		
0.26	0.03	0.29		
0.265	0.165	0.43		
0.245	0.205	0.45		
0.225	0.195	0.42		
0.11	0.08	0.19		
0.04	0.09	0.13		
0.035	0.04	0.075		
0.015	0.035	0.05		

STATION: 694
DATE: 5/16
TIME: 22.0
LATITUDE: 08°43.8'S
LONGITUDE: 65°33.8'E

STATION: 695
DATE: 5/17
TIME: 09.5
LATITUDE: 08°30.2'S
LONGITUDE: 66°49.0'E

<u>Station 694</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.08	0.02	0.10	43.975
10	0.10	0.01	0.11	
25	0.105	0.025	0.13	
50	0.195	0.035	0.23	
75	0.35	0.18	0.53	
100	0.245	0.135	0.38	
125	0.08	0.11	0.19	
150	0.065	0.075	0.14	
175	0.025	0.045	0.07	
200	0.02	0.06	0.08	

<u>Station 695</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.07	0.02	0.09	35.46
0.10	0.01	0.11	
0.12	0.015	0.135	
0.22	0.025	0.245	
0.37	0.075	0.445	
0.165	0.105	0.27	
0.12	0.04	0.16	
0.02	0.03	0.05	
0.02	0.03	0.05	
0.00	0.03	0.03	

STATION: 696
DATE: 5/17
TIME: 16.5
LATITUDE: 08°19.0'S
LONGITUDE: 68°00.0'E

STATION: 697
DATE: 5/17
TIME: 11.2
LATITUDE: 08°07.0'S
LONGITUDE: 69°00.5'E

<u>Station 696</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.075	0.015	0.09	48.10
10	0.105	0.025	0.13	
25	0.065	0.005	0.07	
50	0.37	0.085	0.455	
75	0.15	0.31	0.46	
100	0.31	0.12	0.43	
125	0.07	0.07	0.14	
150	0.08	0.07	0.15	
175	0.02	0.11	0.13	
200	0.01	0.03	0.04	

<u>Station 697</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.04	0.01	0.05	32.75
0.04	0.01	0.05	
0.06	0.015	0.075	
0.065	0.025	0.09	
0.205	0.155	0.36	
0.235	0.155	0.39	
0.105	0.065	0.17	
0.06	0.07	0.13	
0.025	0.035	0.06	
0.00	0.03	0.03	

STATION: 698
DATE: 5/18
TIME: 07.7
LATITUDE: 07°54.0'S
LONGITUDE: 70°00.5'E

STATION: 699
DATE: 5/18
TIME: 15.5
LATITUDE: 07°38.0'S
LONGITUDE: 71°00.0'E

Station 698

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.07	0.01	0.08	38.94
10	0.07	0.01	0.08	
25	0.065	0.015	0.08	
50	0.28	0.05	0.33	
75	0.29	0.165	0.455	
100	0.125	0.135	0.26	
125	0.09	0.105	0.195	
150	0.06	0.06	0.12	
175	0.02	0.04	0.06	
200	0.01	0.02	0.03	

Station 699

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.06	0.03	0.09	30.30
0.07	0.02	0.09	
0.075	0.025	0.10	
0.215	0.095	0.31	
0.29	0.28	0.57	
0.115	0.145	0.26	
0.07	0.08	0.15	
0.03	0.05	0.08	
0.025	0.045	0.07	
0.02	0.03	0.05	

STATION: 700
DATE: 5/18
TIME: 21.0
LATITUDE: 07°32.0'S
LONGITUDE: 71°26.0'E

STATION: 701
DATE: 5/20
TIME: 10.0
LATITUDE: 05°07.5'S
LONGITUDE: 70°02.0'E

Station 700

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.055	0.025	0.08	34.425
10	0.055	0.015	0.07	
25	0.09	0.03	0.12	
50	0.24	0.13	0.37	
75	0.195	0.135	0.33	
100	0.105	0.105	0.21	
125	0.08	0.08	0.16	
150	0.04	0.05	0.09	
175	0.02	0.03	0.05	
200	0.01	0.03	0.04	

Station 701

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.075	0.025	0.10	53.175
0.115	0.025	0.14	
0.165	0.025	0.19	
0.33	0.13	0.46	
0.31	0.12	0.43	
0.115	0.475	0.59	
0.075	0.055	0.13	
0.04	0.15	0.19	
0.04	0.03	0.07	
0.01	0.02	0.03	

STATION: 702
DATE: 5/20
TIME: 19.5
LATITUDE: 05°00.0'S
LONGITUDE: 68°39.0'E

STATION: 703
DATE: 5/21
TIME: 05.5
LATITUDE: 05°03.5'S
LONGITUDE: 67°17.0'E

<u>Station 702</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.055	0.025	0.08	38.975
10	0.065	0.025	0.09	
25	0.075	0.035	0.11	
50	0.39	0.15	0.54	
75	0.225	0.125	0.35	
100	0.105	0.115	0.22	
125	0.055	0.065	0.12	
150	0.04	0.06	0.10	
175	0.02	0.04	0.06	
200	0.01	0.03	0.04	

<u>Station 703</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.055	0.025	0.08	43.675	
0.07	0.04	0.11		
0.085	0.035	0.12		
0.135	0.055	0.19		
0.235	0.145	0.38		
0.215	0.215	0.43		
0.32	0.075	0.395		
0.05	0.05	0.10		
0.02	0.04	0.06		
0.015	0.035	0.05		

STATION: 704
DATE: 5/21
TIME: 13.2
LATITUDE: 05°04.0'S
LONGITUDE: 65°51.0'E

STATION: 705
DATE: 5/21
TIME: 23.0
LATITUDE: 05°01.0'S
LONGITUDE: 64°32.0'E

<u>Station 704</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.075	0.015	0.09	52.575
10	0.075	0.025	0.10	
25	0.135	0.015	0.15	
50	0.45	0.08	0.53	
75	0.49	0.12	0.61	
100	0.185	0.155	0.34	
125	0.155	0.105	0.26	
150	0.04	0.05	0.09	
175	0.02	0.04	0.06	
200	0.015	0.035	0.05	

<u>Station 705</u>				
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0.07	0.02	0.09	30.29	
0.07	0.03	0.10		
0.08	0.04	0.12		
0.135	0.145	0.18		
0.155	0.105	0.26		
0.135	0.145	0.28		
0.075	0.075	0.15		
0.05	0.04	0.09		
0.02	0.045	0.065		
0.02	0.025	0.45		

STATION: 706
DATE: 5/22
TIME: 09.5
LATITUDE: 04°56.5'S
LONGITUDE: 63°07.0'E

STATION: 707
DATE: 5/22
TIME: 17.0
LATITUDE: 04°53.0'S
LONGITUDE: 61°50.0'E

<u>Station 706</u>					<u>Station 707</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0	0.065	0.025	0.09	44.525	0.075	0.035	0.11	42.525	
10	0.065	0.025	0.09		0.10	0.02	0.12		
25	0.075	0.035	0.11		0.10	0.03	0.13		
50	0.195	0.075	0.27		0.265	0.13	0.395		
75	0.35	0.26	0.61		0.265	0.13	0.395		
100	0.175	0.215	0.39		0.155	0.125	0.28		
125	0.07	0.11	0.18		0.105	0.125	0.23		
150	0.06	0.055	0.115		0.025	0.085	0.11		
175	0.015	0.035	0.05		0.02	0.06	0.08		
200	0.005	0.025	0.03		0.02	0.03	0.05		

STATION: 708
DATE: 5/23
TIME: 04.0
LATITUDE: 04°57.0'S
LONGITUDE: 60°26.0'E

STATION: 709
DATE: 5/23
TIME: 13.0
LATITUDE: 04°55.5'S
LONGITUDE: 59°02.1'E

<u>Station 708</u>					<u>Station 709</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>	
0	0.09	0.03	0.12	50.49	0.115	0.055	0.17	53.15	
10	0.105	0.04	0.145		0.165	0.055	0.22		
25	0.155	0.055	0.21		0.48	0.11	0.59		
50	0.41	0.21	0.62		0.18	0.34	0.52		
75	0.255	0.225	0.48		0.215	0.165	0.38		
100	0.115	0.125	0.24		0.155	0.085	0.24		
125	0.035	0.105	0.14		0.09	0.07	0.16		
150	0.045	0.045	0.09		0.045	0.045	0.09		
175	0.085	0.075	0.16		0.04	0.05	0.09		
200	0.015	0.035	0.05		0.015	0.045	0.06		

STATION: 710
DATE: 5/23
TIME: 21.5
LATITUDE: 04°52.5'S
LONGITUDE: 58°17.1'E

STATION: 711
DATE: 5/24
TIME: 07.5
LATITUDE: 04°43.0'S
LONGITUDE: 57°00.0'E

Station 710

Depth	Chl a mg/m ³	Phaeo mg/m ³	Total mg/m ³	Pigment mg/m ²
0	0.115	0.015	0.13	42.550
10	0.175	0.055	0.23	
25	0.505	0.215	0.72	
50	0.195	0.175	0.37	
75	0.145	0.115	0.26	
100	0.095	0.065	0.16	
125	0.035	0.035	0.07	
150	0.02	0.03	0.05	
175	0.02	0.03	0.05	
200	0.01	0.04	0.05	

Station 711

Depth	Chl a mg/m ³	Phaeo mg/m ³	Total mg/m ³	Pigment mg/m ²
0	0.41	0.12	0.53	59.725
10	0.45	0.10	0.55	
25	0.525	0.135	0.66	
50	0.585	0.215	0.80	
75	0.23	0.20	0.43	
100	0.05	0.055	0.105	
125	0.02	0.03	0.05	
150	0.01	0.04	0.05	
175	0.005	0.025	0.03	
200	0.005	0.025	0.03	

STATION: 712
DATE: 5/27
TIME: 03.0
LATITUDE: 05°20.0'S
LONGITUDE: 54°15.0'E

STATION: 713
DATE: 5/28
TIME: 13.2
LATITUDE: 06°27.0'S
LONGITUDE: 53°12.0'E

Station 712

Depth	Chl a mg/m ³	Phaeo mg/m ³	Total mg/m ³	Pigment mg/m ²
0	0.165	0.025	0.19	47.00
10	0.225	0.065	0.29	
25	0.225	0.065	0.29	
50	0.265	0.13	0.395	
75	0.30	0.22	0.52	
100	0.17	0.20	0.37	
125	0.03	0.04	0.07	
150	0.02	0.03	0.05	
175	0.01	0.03	0.04	
200	0.005	0.035	0.04	

Station 713

Depth	Chl a mg/m ³	Phaeo mg/m ³	Total mg/m ³	Pigment mg/m ²
0	0.235	0.035	0.27	34.250
10	0.225	0.045	0.27	
25	0.605	0.115	0.72	
50	0.33	0.15	0.48	
75	0.195	0.175	0.37	
100	0.07	0.06	0.13	
125	0.04	0.05	0.09	
150	0.02	0.03	0.05	
175	0.005	0.035	0.04	
200	0.005	0.025	0.03	

STATION: 714
DATE: 5/28
TIME: 19.5
LATITUDE: 07°28.0'S
LONGITUDE: 52°42.0'E

STATION: 715
DATE: 5/29
TIME: 06.0
LATITUDE: 08°37.0'S
LONGITUDE: 52°07.0'E

Station 714

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.175	0.02	0.195	28.137
10	0.135	0.02	0.155	
25	0.105	0.025	0.13	
50	0.125	0.115	0.24	
75	0.105	0.095	0.20	
100	0.145	0.105	0.25	
125	0.07	0.04	0.11	
150	0.02	0.03	0.05	
175	0.01	0.03	0.04	
200	0.005	0.025	0.03	

Station 715

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.225	0.075	0.30	43.65
0.245	0.085	0.33	
0.28	0.09	0.37	
0.34	0.20	0.54	
0.185	0.135	0.32	
0.115	0.095	0.21	
0.02	0.04	0.06	
0.02	0.03	0.05	
0.01	0.02	0.03	
0.005	0.025	0.03	

STATION: 716
DATE: 5/31
TIME: 12.5
LATITUDE: 15°03.0'S
LONGITUDE: 50°34.0'E

STATION: 717
DATE: 5/31
TIME: 19.5
LATITUDE: 15°08.0'S
LONGITUDE: 51°12.0'E

Station 716

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.45	0.09	0.54	56.175
10	0.545	0.065	0.61	
25	0.225	0.305	0.53	
50	0.195	0.045	0.24	
75	0.18	0.05	0.23	
100	0.35	0.22	0.57	
125	0.10	0.10	0.20	
150	0.05	0.05	0.10	
175	0.015	0.025	0.04	
200	0.035	0.025	0.06	

Station 717

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.10	0.02	0.12	37.588
0.09	0.025	0.115	
0.11	0.02	0.13	
0.095	0.025	0.12	
0.125	0.015	0.14	
0.28	0.20	0.48	
0.185	0.135	0.32	
0.03	0.07	0.10	
0.055	0.045	0.10	
0.035	0.035	0.07	

STATION: 718
DATE: 5/31
TIME: (22.8)
LATITUDE: 15°16.8'S
LONGITUDE: 51°52.0'E

STATION: 719
DATE: 6/1
TIME: 14.0
LATITUDE: 15°36.5'S
LONGITUDE: 53.23.0'E

Station 718

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

Station 719

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.10	0.01	0.11	32.475
0.13	0.02	0.15	
0.19	0.05	0.24	
0.20	0.02	0.22	
0.195	0.095	0.29	
0.15	0.11	0.26	
0.085	0.085	0.17	
0.035	0.105	0.14	
---	---	---	
---	---	---	

STATION: 720
DATE: 6/1
TIME: 22.0
LATITUDE: 15°51.0'S
LONGITUDE: 54°36.5'E

STATION: 721
DATE: 6/2
TIME: 09.5
LATITUDE: 16°09.0'S
LONGITUDE: 55°59.0'E

Station 720

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.155	0.035	0.19	48.725
10	0.195	0.045	0.24	
25	0.175	0.045	0.22	
50	0.245	0.065	0.31	
75	0.235	0.055	0.29	
100	0.195	0.16	0.355	
125	0.215	0.095	0.31	
150	0.105	0.09	0.195	
175	0.06	0.055	0.115	
200	0.06	0.02	0.08	

Station 721

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.08	0.02	0.10	44.150
0.115	0.025	0.14	
0.135	0.035	0.17	
0.105	0.035	0.14	
0.165	0.025	0.19	
0.27	0.17	0.44	
0.195	0.175	0.37	
0.125	0.095	0.22	
0.07	0.08	0.15	
0.03	0.03	0.06	

STATION: 722
DATE: 6/2
TIME: 18.0
LATITUDE: 16°24.8'S
LONGITUDE: 57°14.0'E

STATION: 723
DATE: 6/3
TIME: (00.1)
LATITUDE: 16°44.5'S
LONGITUDE: 58°56.0'E

Station 722

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.21	0.02	0.23	55.962
10	0.23	0.03	0.26	
25	0.235	0.04	0.275	
50	0.345	0.025	0.37	
75	0.46	0.18	0.64	
100	0.205	0.15	0.355	
125	0.14	0.10	0.24	
150	0.095	0.065	0.16	
175	0.05	0.01	0.06	
200	0.025	0.015	0.04	

Station 723

Chl a Phaeo Total Pigment
mg/m³ mg/m³ mg/m³ mg/m²

Did not take samples.

STATION: 724
DATE: 6/3
TIME: 10.0
LATITUDE: 16°57.0'S
LONGITUDE: 59°31.5'E

STATION: 725
DATE: 6/3
TIME: (19.2)
LATITUDE: 17°59.0'S
LONGITUDE: 60°55.0'E

Station 724

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.04	0.07	0.11	21.838
10	0.04	0.055	0.095	
25	0.05	0.08	0.13	
50	0.14	0.01	0.15	
75	0.10	0.04	0.14	
100	0.095	0.045	0.15	
125	0.07	0.025	0.095	
150	0.05	0.035	0.085	
175	0.03	0.025	0.055	
200	0.025	0.025	0.05	

Station 725

Chl a Phaeo Total Pigment
mg/m³ mg/m³ mg/m³ mg/m²

Did not take samples.

STATION: 726
DATE: 6/5
TIME: (11.6)
LATITUDE: 19°31.5'S
LONGITUDE: 63°12.5'E

STATION: 727
DATE: 6/5
TIME: 01.0
LATITUDE: 18°54.1'S
LONGITUDE: 61°52.0'E

Station 726

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

Station 727

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.025	0.005	0.03	34.539
0.07	0.035	0.105	
0.09	0.02	0.11	
0.12	0.015	0.135	
0.135	0.025	0.16	
0.195	0.105	0.30	
0.21	0.13	0.34	
0.075	0.075	0.15	
0.06	0.05	0.11	
0.04	0.03	0.07	

STATION: 728
DATE: 6/6
TIME: (06.3)
LATITUDE: 20°04.7'S
LONGITUDE: 61°01.2'E

STATION: 729
DATE: 6/6
TIME: 18.0
LATITUDE: 19°56.0'S
LONGITUDE: 59°40.0'E

Station 728

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

Station 729

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.065	0.01	0.075	29.675
0.065	0.00	0.065	
0.06	0.005	0.065	
0.065	0.00	0.065	
0.14	0.025	0.165	
0.24	0.09	0.33	
0.14	0.135	0.275	
0.105	0.085	0.19	
0.035	0.015	0.05	
0.015	0.01	0.025	

STATION: 730
DATE: 6/6
TIME: 01.5
LATITUDE: 19°59.5'S
LONGITUDE: 58°48.0'E

STATION: 731
DATE: 6/7
TIME: (05.9)
LATITUDE: 20°01.1'S
LONGITUDE: 57°53.8'E

Station 730

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.03	0.00	0.03	15.438
10	0.035	0.005	0.04	
25	0.05	0.005	0.055	
50	0.045	0.00	0.045	
75	---	---	---	
100	0.105	0.035	0.14	
125	0.12	0.02	0.14	
150	0.04	0.03	0.07	
175	0.025	0.015	0.04	
200	0.015	0.005	0.02	

Station 731

Chl a mg/m³ Phaeo mg/m³ Total mg/m³ Pigment mg/m²

Did not take samples.

STATION: 732
DATE: 6/11
TIME: (01.8)
LATITUDE: 19°53.0'S
LONGITUDE: 56°48.0'E

STATION: 733
DATE: 6/11
TIME: (12.4)
LATITUDE: 19°56.0'S
LONGITUDE: 55°17.0'E

Station 732

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.27	0.01	0.28	26.163
10	0.12	0.03	0.15	
25	0.09	0.02	0.11	
50	0.065	0.045	0.11	
75	0.095	0.035	0.13	
100	0.175	0.145	0.32	
125	0.085	0.085	0.17	
150	0.02	0.03	0.05	
175	0.015	0.02	0.035	
200	0.01	0.015	0.025	

Station 733

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.095	0.015	0.11	23.926
0.045	0.035	0.08	
0.11	0.04	0.15	
0.05	0.05	0.10	
0.095	0.025	0.12	
0.225	0.155	0.38	
0.045	0.06	0.105	
0.01	0.02	0.03	
0.015	0.015	0.03	
0.01	0.01	0.02	

STATION: 734
DATE: 6/11
TIME: (21.8)
LATITUDE: 19°58.2'S
LONGITUDE: 53°53.0'E

STATION: 735
DATE: 6/12
TIME: (06.8)
LATITUDE: 20°01.8'S
LONGITUDE: 52°30.2'E

Station 734

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.065	0.045	0.11	32.975
10	0.08	0.02	0.10	
25	0.06	0.03	0.09	
50	0.015	0.07	0.085	
75	0.13	0.05	0.18	
100	0.255	0.14	0.395	
125	0.14	0.11	0.25	
150	0.07	0.05	0.12	
175	---	---	---	
200	0.025	0.06	0.085	

Station 735

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.13	0.02	0.15	30.150
0.08	0.005	0.085	
0.12	0.00	0.12	
0.14	0.00	0.14	
0.13	0.00	0.13	
0.165	0.08	0.245	
0.11	0.15	0.26	
0.095	0.075	0.17	
0.035	0.03	0.065	
0.035	0.015	0.05	

STATION: 736
DATE: 6/12
TIME: (16.6)
LATITUDE: 19°59.5'S
LONGITUDE: 51°04.5'E

STATION: 737
DATE: 6/12
TIME: (23.2)
LATITUDE: 19°59.5'S
LONGITUDE: 50°06.5'E

Station 736

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.045	0.045	0.09	35.788
10	0.08	0.005	0.085	
25	0.11	0.01	0.12	
50	0.045	0.025	0.07	
75	0.13	0.02	0.15	
100	0.24	0.10	0.34	
125	0.06	0.11	0.17	
150	0.065	0.13	0.195	
175	0.05	0.035	0.085	
200	0.015	0.015	0.03	

Station 737

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.055	0.055	0.11	32.913
0.06	0.055	0.115	
0.075	0.04	0.115	
0.105	0.025	0.13	
0.185	0.015	0.20	
0.305	0.165	0.47	
0.09	0.14	0.23	
0.025	0.035	0.06	
0.03	0.01	0.04	
0.01	0.02	0.03	

STATION: 738
DATE: 6/13
TIME: (03.4)
LATITUDE: 20°08.0'S
LONGITUDE: 49°34.0'E

STATION: 739
DATE: 6/13
TIME: (07.4)
LATITUDE: 20°05.0'S
LONGITUDE: 49°00.0'E

Station 738

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

Station 739

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.11	0.03	0.14	32.300
0.135	0.025	0.16	
0.185	0.045	0.23	
0.20	0.035	0.235	
0.185	0.035	0.22	
0.195	0.215	0.41	
0.03	0.08	0.11	
0.03	0.02	0.05	
---	---	---	
---	---	---	

STATION:
DATE:
TIME:
LATITUDE:
LONGITUDE:

STATION: 755
DATE: 6/19
TIME: 13.00
LATITUDE: 25°56.0'S
LONGITUDE: 36°42.0'E

Station

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	No samples were taken at any stations between 739 and 755.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

Station 755

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.185	0.045	0.23	45.650
0.195	0.035	0.23	
0.30	0.05	0.35	
0.36	0.085	0.445	
0.37	0.085	0.455	
0.105	0.085	0.19	
0.08	0.06	0.14	
0.045	0.035	0.08	
0.005	0.045	0.05	
0.01	0.04	0.05	

STATION: 756
DATE: 6/19
TIME: 18.00
LATITUDE: 25°53.0'S
LONGITUDE: 36°09.0'E

STATION: 757
DATE: 6/19
TIME: (23.7)
LATITUDE: 25°54.5'S
LONGITUDE: 35°17.8'E

Station 756

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.11	0.03	0.14	36.725
10	0.11	0.00	0.11	
25	0.19	0.03	0.22	
50	0.33	0.05	0.38	
75	0.265	0.095	0.36	
100	0.23	0.11	0.34	
125	0.04	0.02	0.06	
150	0.025	0.015	0.04	
175	0.01	0.01	0.02	
200	0.015	0.005	0.02	

Station 757

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
---	---	---	---

Did not take samples.

STATION: 758
DATE: 6/20
TIME: (03.0)
LATITUDE: 25°56.5'S
LONGITUDE: 34°45.0'E

STATION: 759
DATE: 6/20
TIME: 09.5
LATITUDE: 25°59.0'S
LONGITUDE: 34°10.5'E

Station 758

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	Did not take samples.			
10				
25				
50				
75				
100				
125				
150				
175				
200				

Station 759

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.71	0.10	0.81	69.775
0.69	0.10	0.79	
1.45	0.16	1.61	
1.41	0.12	1.53	
0.67	0.10	0.77	
0.11	0.06	0.17	
0.08	0.05	0.13	
0.04	0.045	0.085	
0.025	0.025	0.05	
0.01	0.02	0.03	

STATION: 760
DATE: 6/20
TIME: 14.0
LATITUDE: 25°58.5'S
LONGITUDE: 33°39.0'E

STATION: 761
DATE: 6/28
TIME: 23.8
LATITUDE: 31°32.0'S
LONGITUDE: 34°32.0'E

Station 760

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.15	0.01	0.16	53.015
10	0.51	0.03	0.54	
25	0.42	0.05	0.47	
50	0.59	0.075	0.665	
75	---	---	---	
100	0.11	0.08	0.19	
125	0.04	0.035	0.075	
150	0.02	0.025	0.045	
175	0.015	0.015	0.03	
200	0.005	0.015	0.02	

Station 761

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.33	0.06	0.39	38.750
0.32	0.07	0.39	
0.38	0.06	0.44	
0.265	0.085	0.35	
0.375	0.035	0.41	
0.065	0.025	0.09	
0.02	0.01	0.03	
0.015	0.015	0.03	
0.005	0.005	0.01	
0.01	0.00	0.01	

STATION: 762
DATE: 6/28
TIME: 23.5
LATITUDE: 31°57.5'S
LONGITUDE: 36°56.0'E

STATION: 763
DATE: 6/29
TIME: (20.7)
LATITUDE: 32°0.50'S
LONGITUDE: 40°49.0'E

Station 762

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.18	0.03	0.21	35.600
10	0.335	0.045	0.38	
25	0.415	0.105	0.52	
50	0.335	0.065	0.40	
75	0.085	0.035	0.12	
100	0.06	0.035	0.095	
125	0.045	0.02	0.065	
150	0.015	0.035	0.05	
175	0.01	0.025	0.035	
200	0.01	0.01	0.02	

Station 763

Chl a mg/m³ Phaeo mg/m³ Total mg/m³ Pigment mg/m²
Did not take samples.

STATION: 764
DATE: 6/30
TIME: 19.C
LATITUDE: 32°01.0'S
LONGITUDE: 44°25.0'E

STATION: 765
DATE: 7/1
TIME: 00.5
LATITUDE: 32°01.8'S
LONGITUDE: 49°55.5'E

Station 764

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.205	0.035	0.24	37.300
10	---	---	---	
25	0.25	0.08	0.33	
50	0.26	0.06	0.32	
75	---	---	---	
100	0.14	0.02	0.16	
125	0.08	0.04	0.12	
150	0.045	0.02	0.065	
175	0.02	0.01	0.03	
200	0.01	0.005	0.015	

Station 765

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.08	0.04	0.12	25.520
0.13	0.04	0.17	
0.15	0.015	0.165	
0.135	0.03	0.165	
0.13	0.035	0.165	
0.11	0.02	0.13	
0.085	0.045	0.13	
0.035	0.05	0.085	
0.045	0.035	0.08	
0.03	0.015	0.045	

STATION: 766
DATE: 7/2
TIME: 04.0
LATITUDE: 32°00.5'S
LONGITUDE: 55°07.5'E

STATION: 767
DATE: 7/4
TIME: 09.5
LATITUDE: 31°59.0'S
LONGITUDE: 60°52.5'E

Station 766

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.165	0.025	0.19	36.225
10	0.185	0.015	0.20	
25	0.155	0.025	0.18	
50	0.19	0.02	0.21	
75	0.205	0.095	0.30	
100	---	---	---	
125	0.12	0.04	0.16	
150	0.07	0.05	0.12	
175	0.04	0.07	0.11	
200	0.04	0.035	0.075	

Station 767

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.25	0.03	0.28	43.000
---	---	---	
0.315	0.03	0.35	
0.29	0.07	0.36	
0.25	0.05	0.30	
0.26	0.04	0.30	
0.43	0.02	0.45	
0.065	0.015	0.08	
0.025	0.03	0.055	
0.01	0.02	0.03	

STATION: 768
DATE: 7/5
TIME: 09.C
LATITUDE: 32°01.8'S
LONGITUDE: 65°29.1'E

STATION: 769
DATE: 7/5
TIME: 13.8
LATITUDE: 31°59.0'S
LONGITUDE: 70°42.5'E

Station 768

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.135	0.015	0.15	35.345
10	0.09	0.06	0.15	
25	0.155	0.03	0.185	
50	0.12	0.03	0.15	
75	0.215	0.08	0.295	
100	0.27	0.10	0.37	
125	0.115	0.095	0.21	
150	0.055	0.035	0.09	
175	0.02	0.01	0.03	
200	0.015	0.015	0.03	

Station 769

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.145	0.025	0.17	28.840
0.225	0.00	0.225	
0.20	0.03	0.23	
0.165	0.005	0.17	
0.16	0.00	0.16	
---	---	---	
0.17	0.06	0.23	
0.095	0.05	0.145	
0.055	0.045	0.10	
0.03	0.015	0.045	

STATION: 770
DATE: 7/7
TIME: 16.2
LATITUDE: 31°55.0'S
LONGITUDE: 75°35.5'E

STATION: 771
DATE: 7/9
TIME: 03.0
LATITUDE: 31°59.8'S
LONGITUDE: 82°11.5'E

Station 770

<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.20	0.04	0.24	31.225
10	0.185	0.035	0.22	
25	0.145	0.035	0.18	
50	0.20	0.05	0.25	
75	0.20	0.04	0.24	
100	0.145	0.08	0.225	
125	0.095	0.055	0.15	
150	0.03	0.02	0.05	
175	0.015	0.01	0.025	
200	0.00	0.01	0.01	

Station 771

<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.265	0.035	0.30	40.175
0.155	0.085	0.24	
0.24	0.05	0.29	
0.19	0.05	0.24	
0.20	0.04	0.24	
0.295	0.055	0.35	
0.10	0.065	0.165	
0.065	0.055	0.12	
0.035	0.025	0.06	
0.03	0.01	0.04	

STATION: 772
DATE: 7/10
TIME: 03.5
LATITUDE: 32°02.5'S
LONGITUDE: 87°00.0'E

STATION: 773
DATE: 7/10
TIME: 06.0
LATITUDE: 32°01.5'S
LONGITUDE: 92°10.5'E

<u>Station 772</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.23	0.04	0.27	37.875
10	0.185	0.035	0.22	
25	0.25	0.03	0.28	
50	0.20	0.04	0.24	
75	0.185	0.075	0.26	
100	0.175	0.055	0.23	
125	0.145	0.035	0.18	
150	0.09	0.04	0.13	
175	0.05	0.02	0.07	
200	0.02	0.015	0.035	

<u>Station 773</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.23	0.04	0.27	48.475
0.245	0.035	0.28	
0.25	0.05	0.30	
0.21	0.03	0.24	
0.255	0.065	0.32	
0.195	0.04	0.235	
0.21	0.07	0.28	
0.23	0.085	0.315	
0.07	0.025	0.095	
0.03	0.01	0.04	

STATION: 774
DATE: 7/12
TIME: 12.5
LATITUDE: 32°00.0'S
LONGITUDE: 97°51.0'E

STATION: 775
DATE: 7/13
TIME: 17.5
LATITUDE: 32°00.6'S
LONGITUDE: 103°58.5'E

<u>Station 774</u>				
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.31	0.045	0.355	52.380
10	0.205	0.055	0.26	
25	0.205	0.085	0.29	
50	0.23	0.07	0.30	
75	0.235	0.065	0.30	
100	0.105	0.06	0.165	
125	0.07	0.025	0.095	
150	0.04	0.02	0.06	
175	0.01	0.01	0.02	
200	0.01	0.005	0.015	

<u>Station 775</u>			
<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0.25	0.05	0.30	53.325
0.23	0.06	0.29	
0.255	0.055	0.31	
0.235	0.065	0.30	
0.245	0.125	0.37	
0.24	0.11	0.35	
0.175	0.065	0.24	
0.18	0.055	0.235	
0.105	0.035	0.14	
0.065	0.025	0.09	

STATION: 776
 DATE: 7/14
 TIME: 22.5
 LATITUDE: 32°00.1'S
 LONGITUDE: 109°17.0'E

STATION: 777
 DATE: 7/16
 TIME: 06.5
 LATITUDE: 32°00.1'S
 LONGITUDE: 114°53.0'E

	<u>Station 776</u>					<u>Station 777</u>			
<u>Depth</u>	<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>		<u>Chl a</u> <u>mg/m³</u>	<u>Phaeo</u> <u>mg/m³</u>	<u>Total</u> <u>mg/m³</u>	<u>Pigment</u> <u>mg/m²</u>
0	0.25	0.05	0.30	51.025		0.09	0.055	0.145	35.380
10	0.295	0.065	0.36			0.105	0.045	0.15	
25	0.295	0.075	0.37			0.365	0.075	0.44	
50	0.32	0.08	0.40			0.255	0.055	0.31	
75	0.295	0.06	0.355			0.15	0.045	0.195	
100	0.31	0.08	0.39			0.13	0.055	0.185	
125	0.10	0.06	0.16			0.80	0.05	0.13	
150	0.065	0.055	0.12			0.05	0.02	0.07	
175	0.03	0.035	0.065			0.03	0.015	0.045	
200	0.025	0.005	0.03			0.04	0.02	0.06	

Observations end at Freemantle, Australia after Station 777.

Woods Hole Oceanographic Institution
Reference No. 66-12

THE DISTRIBUTION OF CHLOROPHYLL IN THE WESTERN INDIAN OCEAN DURING THE NORTHEAST MONSOON PERIOD, February 13--July 16, 1965 by David A. McGill and Thomas J. Lawson, Jr. 69 pp. 3 fig. Technical Report. April 1966. National Science Foundation Grant GP-821.

This report contains the observations of phytoplankton pigment characteristics made during ATLANTIS II Cruise No. 15 in the western Indian Ocean and its reaches during the Northeast Monsoon in 1965. Data are given for the chlorophyll a and the phaeophytin fractions as well as for the total pigment measurement and the integrated total pigment. Comparable data is available from an earlier cruise in 1963 during the Southwest Monsoon, and some statistical comparisons of the two periods are presented. In the 1965 data the regional variation is minimal, with no pronounced variation between the northern and southern hemispheres.

1. Phytoplankton pigment measurements
 - a. Chlorophyll a
 - b. Phaeophytin
 - c. Total Pigment
 - d. Integrated total pigment
2. Western Indian Ocean
3. Northeast Monsoon

- I. McGill, David A.
- II. Lawson, Thomas J., Jr.
- III. National Science Foundation Grant GP 821

This card is UNCLASSIFIED

Woods Hole Oceanographic Institution
Reference No. 66-12

THE DISTRIBUTION OF CHLOROPHYLL IN THE WESTERN INDIAN OCEAN DURING THE NORTHEAST MONSOON PERIOD, February 13--July 16, 1965 by David A. McGill and Thomas J. Lawson, Jr. 69 pp. 3 fig. Technical Report. April 1966. National Science Foundation Grant GP-821.

This report contains the observations of phytoplankton pigment characteristics made during ATLANTIS II Cruise No. 15 in the western Indian Ocean and its reaches during the Northeast Monsoon in 1965. Data are given for the chlorophyll a and the phaeophytin fractions as well as for the total pigment measurement and the integrated total pigment. Comparable data is available from an earlier cruise in 1963 during the Southwest Monsoon, and some statistical comparisons of the two periods are presented. In the 1965 data the regional variation is minimal, with no pronounced variation between the northern and southern hemispheres.

1. Phytoplankton pigment measurements
 - a. Chlorophyll a
 - b. Phaeophytin
 - c. Total Pigment
 - d. Integrated total pigment
2. Western Indian Ocean
3. Northeast Monsoon

- I. McGill, David A.
- II. Lawson, Thomas J., Jr.
- III. National Science Foundation Grant GP 821

This card is UNCLASSIFIED

Woods Hole Oceanographic Institution
Reference No. 66-12

THE DISTRIBUTION OF CHLOROPHYLL IN THE WESTERN INDIAN OCEAN DURING THE NORTHEAST MONSOON PERIOD, February 13--July 16, 1965 by David A. McGill and Thomas J. Lawson, Jr. 69 pp. 3 fig. Technical Report. April 1966. National Science Foundation Grant GP-821.

This report contains the observations of phytoplankton pigment characteristics made during ATLANTIS II Cruise No. 15 in the western Indian Ocean and its reaches during the Northeast Monsoon in 1965. Data are given for the chlorophyll a and the phaeophytin fractions as well as for the total pigment measurement and the integrated total pigment. Comparable data is available from an earlier cruise in 1963 during the Southwest Monsoon, and some statistical comparisons of the two periods are presented. In the 1965 data the regional variation is minimal, with no pronounced variation between the northern and southern hemispheres.

1. Phytoplankton pigment measurements
 - a. Chlorophyll a
 - b. Phaeophytin
 - c. Total Pigment
 - d. Integrated total pigment
2. Western Indian Ocean
3. Northeast Monsoon

- I. McGill, David A.
- II. Lawson, Thomas J., Jr.
- III. National Science Foundation Grant GP 821

This card is UNCLASSIFIED

Woods Hole Oceanographic Institution
Reference No. 66-12

THE DISTRIBUTION OF CHLOROPHYLL IN THE WESTERN INDIAN OCEAN DURING THE NORTHEAST MONSOON PERIOD, February 13--July 16, 1965 by David A. McGill and Thomas J. Lawson, Jr. 69 pp. 3 fig. Technical Report. April 1966. National Science Foundation Grant GP-821.

This report contains the observations of phytoplankton pigment characteristics made during ATLANTIS II Cruise No. 15 in the western Indian Ocean and its reaches during the Northeast Monsoon in 1965. Data are given for the chlorophyll a and the phaeophytin fractions as well as for the total pigment measurement and the integrated total pigment. Comparable data is available from an earlier cruise in 1963 during the Southwest Monsoon, and some statistical comparisons of the two periods are presented. In the 1965 data the regional variation is minimal, with no pronounced variation between the northern and southern hemispheres.

1. Phytoplankton pigment measurements
 - a. Chlorophyll a
 - b. Phaeophytin
 - c. Total Pigment
 - d. Integrated total pigment
2. Western Indian Ocean
3. Northeast Monsoon

- I. McGill, David A.
- II. Lawson, Thomas J., Jr.
- III. National Science Foundation Grant GP 821

This card is UNCLASSIFIED

